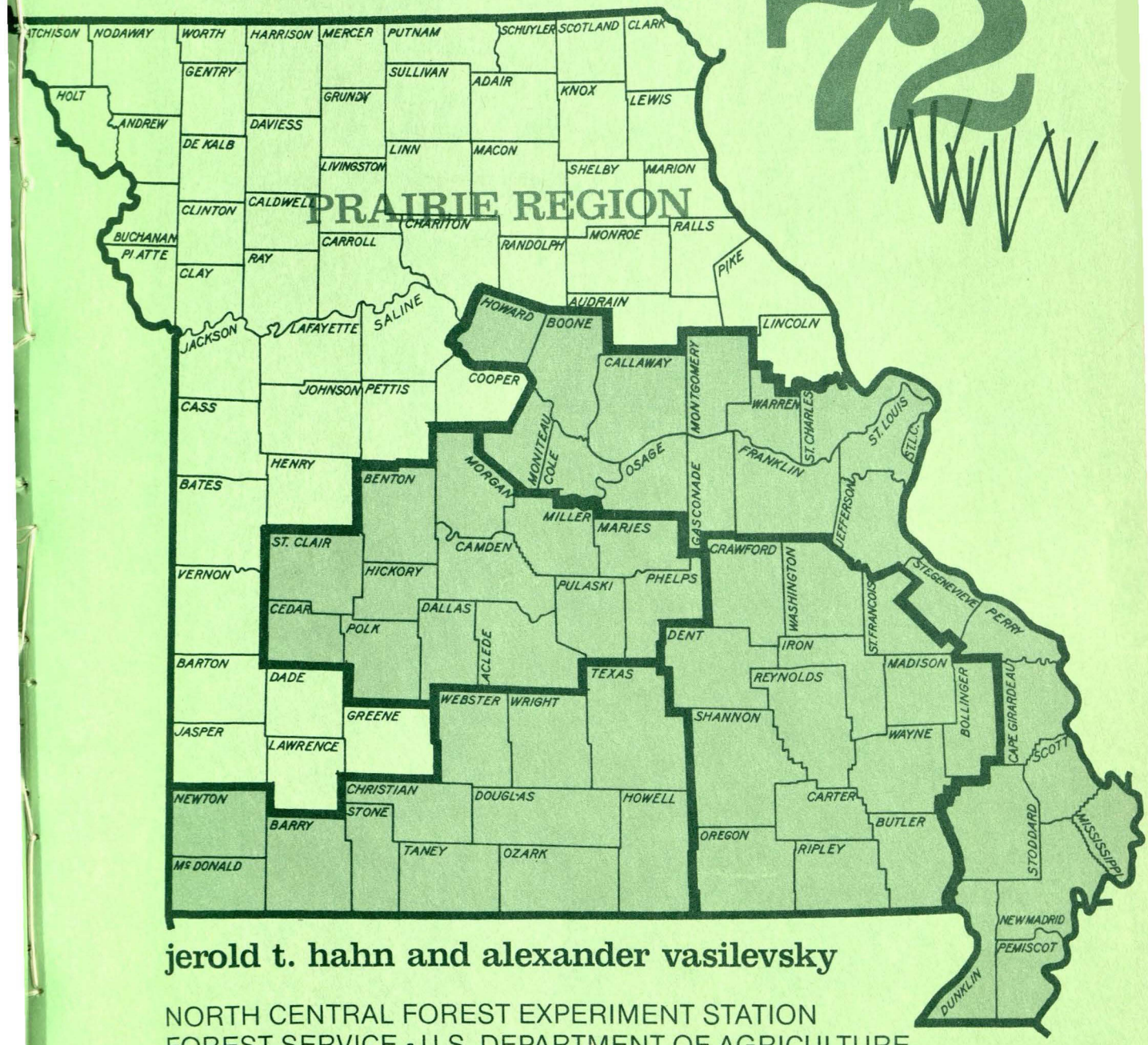
U S D A FOREST SERVICE
RESOURCE BULLETIN NC-26

TIMBER RESOURCE OF MISSOURI'S prairie region

'72



jerold t. hahn and alexander vasilevsky

NORTH CENTRAL FOREST EXPERIMENT STATION
FOREST SERVICE • U.S. DEPARTMENT OF AGRICULTURE

North Central Forest Experiment Station
John H. Ohman, Director
Forest Service - U.S. Department of Agriculture
Folwell Avenue
St. Paul, Minnesota 55101
(Maintained in cooperation with the University of Minnesota)
1975

THE AUTHORS: Jerold T. Hahn and Alexander Vasilevsky are both Mensurationists for the Station. They are located at the Station's Headquarters Laboratory in St. Paul, Minnesota.

FOREWORD

Forest Survey is a continuing endeavor as mandated by the McSweeney-McNary Forest Research Act of 1928. Its objective is to inventory periodically the Nation's forest lands to determine their extent, condition, and volumes of timber, growth, and depletions. This kind of up-to-date information is essential to frame intelligent forest policies and programs. USDA Forest Service regional experiment stations are charged with the responsibility for conducting these inventories and publishing summary reports for individual States. The North Central Forest Experiment Station is responsible for Forest Survey work done in Michigan, Wisconsin, Minnesota, North Dakota, eastern South Dakota, Nebraska, Iowa, Illinois, Indiana, Missouri, and Kansas.

Fieldwork for the 1972 Missouri Forest Survey was started in January 1970 and was completed in May 1973. Reports on the two previous surveys of Missouri's timber resource are dated 1947 and 1959. These earlier reports provide a basis for comparison with the information in this report for those interested in trends that have developed over the past quarter century.

Similar Resource Bulletins reporting statistical highlights and detailed tables on the timber resource of the other Survey Units in Missouri (see cover) are available or are in preparation. These will provide the basis for a comprehensive analysis of the timber resource of the entire State which will be published as a separate report.

A higher degree of accuracy of survey information was obtained during the 1972 survey than otherwise would have been feasible because of intensified field sampling made possible by extra funding provided the North Central Station by the State Legislature through the Missouri Department of Conservation. The Department also conducted a canvass of primary wood-using plants in the State, which was used to help in estimating the quantity of timber products harvested in Missouri.

Personnel from the National Forests in Missouri installed sample plots on national forest lands, which were used to inventory those lands. The USDA Agricultural Stabilization and Conservation Service and the State Historical Society of Missouri furnished aerial photos used in the survey.

GLOSSARY OF TERMS

Used in Resource Bulletins Reporting

MISSOURI'S 1972 TIMBER RESOURCE

NORTH CENTRAL FOREST EXPERIMENT STATION
FOREST SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE

Land-Use Classes

Gross area.--The entire area of land and water as determined by the Bureau of Census, 1960.

Land area.--The area of dry land and land temporarily or partially covered by water such as marshes, swamps, flood plains, streams, sloughs, and estuaries. Canals less than 1/8-mile wide, and lakes, reservoirs, and ponds smaller than 40 acres are included as land area. These figures are from the Bureau of Census, 1960.

Forest land.--Land at least 16.7 percent stocked by forest trees of any size, or formerly having such tree cover, and not currently developed for nonforest use. Includes afforested areas. The minimum forest area classified was 1 acre. Roadside, streamside, and shelterbelt strips of timber must have a crown width of at least 120 feet to qualify as forest land. Unimproved roads and trails, streams, and clearings in forest areas were classed as forest if less than 120 feet in width.

Commercial forest land.--Forest land that is producing or is capable of producing crops of industrial wood and that is not withdrawn from timber utilization by statute or administrative regulation. This includes areas suitable for management to grow crops of industrial wood generally of a site quality capable of producing in excess of 20 cubic feet per acre of annual growth. This includes both inaccessible and inoperable areas.

Noncommercial forest land.--(a) Unproductive--forest land incapable of yielding crops of industrial wood because of adverse site conditions, (b) Productive-reserved--forest land withdrawn from commercial timber use through statute or administrative regulation, or exclusively used for Christmas tree production.

Nonforest land.--Land that has never supported forests, and land formerly forested where forest use is precluded by development for nonforest uses, such as cropland, improved pasture, residential areas, and city parks. Also includes improved roads and adjoining rights-of-way, powerline clearings, and certain areas of water classified by the Bureau of Census as land. Unimproved roads, streams, canals, and nonforest strips in forest areas must be more than 120 feet wide, and clearings in forest areas must be more than 1 acre in size, to qualify as nonforest land.

Ownership Classes

National forest.--Federal lands that have been designated by executive order or statute as national forests or purchase units, and other lands under the administration of the USDA Forest Service.

Other Federal.--Federal lands other than national forest.

State, county, and municipal.--Lands owned by States, counties, or local public agencies, or lands leased by them for more than 50 years.

Forest industry.--Lands owned by companies or individuals operating primary wood-using plants.

Farmer-owned.--Lands owned by operators of farms. A farm must include 10 or more acres from which the sale of agricultural products totals $50 or more annually, or if less than 10 acres, the yield must be at least $250 annually.

Miscellaneous private.--Privately owned lands other than forest industry- or farmer-owned.

Tree Classes

All live trees.--Growing-stock, rough and rotten trees 1 inch d.b.h. and larger.

Growing-stock trees.--All live trees of commercial species except rough and rotten trees.

Desirable trees.--Growing-stock trees having no serious defects in quality limiting present or prospective use, and of relatively high vigor and containing no pathogens that may result in death or serious deterioration before rotation age. These are trees that would be favored by forest managers in silvicultural operations.

Acceptable trees.--Trees meeting the standards for growing stock but not qualifying as desirable trees.

Sawtimber trees.--Growing-stock trees of commercial species containing at least a 12-foot saw log or two noncontiguous saw logs, each 8 feet or longer. At least 33 percent of the gross volume of the tree must be sound wood. Softwoods must be at least 9.0 inches d.b.h. and hardwoods at least 11.0 inches.

Poletimber trees.--Growing-stock trees of commercial species at least 5.0 inches d.b.h. but smaller than sawtimber size, and of good form and vigor.

Saplings.--Live trees of commercial species 1.0 to 5.0 inches d.b.h. and of good form and vigor.

Seedlings.--Live trees of commercial species less than 1.0 inch d.b.h. that are expected to survive according to regional standards. (Examples of seedlings not expected to survive are those that are diseased or heavily damaged by logging, browsing, or fire). Only softwood seedlings over 6 inches and hardwood seedlings over 1 foot in height are counted.

Rotten trees.--Live trees (any size) of commercial species that do not contain a merchantable 12-foot saw log or two noncontiguous 8-foot or longer saw logs, now or prospectively, because of rot (that is, when more than 50 percent of the cull volume of the tree is rotten).

Rough trees.--Live trees that do not contain at least one merchantable 12-foot saw log or two noncontiguous 8-foot or longer saw logs, now or prospectively, because of roughness and poor form, as well as all live noncommercial species.

Short-log (rough trees).--Sawtimber-sized trees of commercial species that contain at least one merchantable 8- to 11-foot saw log but not a 12-foot saw log.

Stocking

The degree of utilization of land by trees as measured in terms of basal area and/or the number of trees in a stand compared to the basal area and/or number of trees required to utilize fully the growth potential of the land.

A stocking percent of 100 indicates full utilization of the site and is equivalent to 80 square feet of basal area per acre in trees 5 inches d.b.h. and larger. In a stand of trees less than 5 inches d.b.h., a stocking percent of 100 would indicate that the present number of trees is sufficient to produce 80 square feet of basal area per acre when the trees do reach 5 inches d.b.h.

Stocking of all live trees, growing-stock trees, and desirable trees are recorded separately and stands are grouped into the following stocking classes.

Stocking Classes

Overstocked stands.--Stands in which stocking of trees is 133 percent or more.

Fully stocked stands.--Stands in which stocking of trees is from 100 to 133 percent.

Medium-stocked stands.--Stands in which stocking of trees is from 60 to 100 percent.

Poorly stocked stands.--Stands in which stocking of trees is from 16.7 to 60 percent.

Nonstocked areas.--Commercial forest land on which stocking of trees is less than 16.7 percent.

Area-Condition Classes

Class 10.--Areas fully stocked with desirable trees but not overstocked.

Class 20.--Areas fully stocked with desirable trees, but overstocked with all live trees.

Class 30.--Areas medium to fully stocked with desirable trees, and with less than 30 percent of the area controlled by other trees and/or inhibiting vegetation or surface conditions that will prevent occupancy by desirable trees.

Class 40.--Areas medium to fully stocked with desirable trees and with 30 percent or more of the area controlled by other trees and/or conditions that ordinarily prevent occupancy by desirable trees.

Class 50.--Areas poorly stocked with desirable trees, but fully stocked with growing-stock trees.

Class 60.--Areas poorly stocked with desirable trees, but with medium to full stocking of growing-stock trees.

Class 70.--Areas poorly stocked with desirable trees, and poorly stocked with growing-stock trees.

Stand-Size Classes

Stand.--A growth of trees on a minimum of 1 acre of forest land that is stocked by forest trees of any size.

Sawtimber stands.--Stands at least 16.7 percent stocked with growing-stock trees, with half or more of this stocking in sawtimber or poletimber trees and with sawtimber stocking at least equal to poletimber stocking.

Poletimber stands.--Stands at least 16.7 percent stocked with growing-stock trees, and with half or more of this stocking in sawtimber and/or poletimber trees and with poletimber stocking exceeding that of sawtimber.

Sapling-seedling stands.--Stands at least 16.7 percent stocked with growing-stock trees and with saplings and/or seedlings comprising more than half of this stocking.

Nonstocked areas.--Commercial forest land on which stocking of growing-stock trees is less than 16.7 percent.

Other Classifications

Site index.--An expression of forest site quality based on the height of a free-growing dominant or codominant tree of a representative species in the forest type at age 50.

Site classes.--A classification of forest land in terms of inherent capacity to grow crops of industrial wood expressed in cubic-foot growth per acre per year.

Stand-age.--Age of the main stand. Main stand refers to trees of the dominant forest type and stand-size class.

Basal area.--The area in square feet of the cross section at breast height of a single tree. When the basal area of all the trees in a stand are summed, the result is usually expressed as square feet of basal area per acre.

Forest Types

A classification of forest land based upon the species forming a plurality of live-tree stocking. Major forest types in Missouri are:

Shortleaf pine.--Forests in which shortleaf pine comprises a plurality of the stocking. (Common associates include oak, hickory, and gum.)

Eastern redcedar.--Forests in which eastern redcedar comprises a plurality of the stocking. (Common associates include oak and hickory.)

Eastern redcedar-hardwood.--Forests in which hardwoods (usually upland oaks) comprise a plurality of the stocking but in which eastern redcedar comprises 25 to 50 percent of the stocking. (Common associates include gum, hickory, and yellow-poplar.)

Shortleaf pine-oak.--Forests in which upland oaks comprise a plurality of the stocking, but in which shortleaf pine comprises 25 to 50 percent of the stocking.

Post-blackjack oak.--Forests in which post oak or blackjack oak, singly or in combination, comprises a plurality of the stocking except where shortleaf pine or redcedar comprises 25 to 50 percent.

Black-scarlet oak.--Forests in which upland oaks or hickory, singly or in combination, comprises a plurality of the stocking except where shortleaf pine or redcedar comprises 25 to 50 percent, or where white oak or post and blackjack oak

comprise a plurality. (Common associates include yellow-poplar, elm, maple, and black walnut.)

White oak.--Forests in which white oak and other white oak species, singly or in combination, comprise a plurality of the stocking except where shortleaf pine or redcedar comprises 25 to 50 percent.

Oak-gum-cypress.--Bottomland forests in which bottomland oaks such as pin, swamp white, and shingle oaks, along with tupelo, blackgum, sweetgum, and cypress, singly or in combination, comprise a plurality of the stocking. (Common associates include cottonwood, willow, ash, elm, hackberry, and maple.)

Elm-ash-cottonwood.--Forests in which elm, ash, or cottonwood, singly or in combination, comprises a plurality of the stocking. (Common associates include willow, sycamore, beech, and maple.)

Cottonwood.--Forests in which cottonwood comprises a plurality of the stocking.

Maple-beech.--Forests in which hard maple or beech, singly or in combination, comprises a plurality of the stocking. (Common associates include elm and basswood.)

Timber Volume

Volume of growing stock.--The volume of sound wood in the bole of growing-stock trees 5.0 inches d.b.h. and over, from a 1-foot stump to a minimum of 4.0-inch top diameter outside bark, or to the point where the central stem breaks into limbs. Growing-stock volumes are shown in cubic feet and cords. Conversion from one unit of measure to another may be accomplished by a factor of 79 cubic feet per solid wood cord.

Volume of sawtimber.--Net volume of the saw log portion of live sawtimber trees in board feet, International 1/4-inch rule, from stump to a minimum 7 inches top diameter outside bark for softwoods and 9 inches for hardwoods.

Upper stem portion.--That part of the bole of sawtimber trees above the merchantable sawtimber top to a minimum top diameter of 4.0 inches outside bark or to the point where the central stem breaks into limbs.

Growth and Mortality

Net annual growth of growing stock.--**Net annual growth of growing stock is the change in volume of sound wood that occurred during 1971 in growing-stock trees that were 5.0 inches d.b.h. or larger at the beginning of the year,**

plus

the volume of sound wood in growing-stock trees smaller than 5.0 inches d.b.h. at the beginning of the year that grew sufficiently during the year to be reclassified into the 5.0-inch-or-larger d.b.h. classes (ingrowth),

plus

the volume of sound wood in trees that had been classified either as rough or rotten trees at the beginning of the year but were reclassified during the year as growing-stock trees,

plus

the annual change in volume of sound wood that occurred during the year on growing-stock trees that died during the year,

plus

the annual change in volume of sound wood that occurred in growing-stock trees included among timber removals for the year (See glossary for timber removals from growing stock, p. 5),

plus

the annual change in volume of sound wood in trees that had been classified as growing stock at the beginning of the year but were reclassified during the year as rough or rotten trees. Only the volume change that occurred during the portion of the years the trees were classified as growing stock was included,

minus

the volume of sound wood in growing-stock trees that died from natural causes during the year, and

minus

the volume of sound wood in trees that had been classified as growing stock at the beginning of the year, but were reclassified during the year as rough or rotten trees.

Net annual growth of sawtimber.--Net annual growth of sawtimber is the change in volume of sound wood that occurred during 1971 in trees that were sawtimber size at the beginning of the year,

plus

the volume of sound wood in growing-stock trees smaller than sawtimber size at the beginning of the year that grew sufficiently during the year to be reclassified as sawtimber trees (ingrowth),

plus

the volume of sound wood in trees that had been classified either as rough or rotten trees at the beginning of the year, but were reclassified during the year as sawtimber trees,

plus

the annual change in volume of sound wood that occurred during the year on sawtimber trees that died during the year,

plus

the annual change in volume of sound wood that occurred in sawtimber trees included among timber removals for the year (see glossary for timber removals from sawtimber, p. 5),

plus

the annual change in volume of sound wood in trees that had been classified as sawtimber trees at the beginning of the year, but were reclassified during the year as rough or rotten trees. Only the volume change that occurred during the portion of the year the trees were classified as sawtimber was included,

minus

the volume of sound wood in sawtimber trees that died from natural causes during the year, and

minus

the volume of sound wood in trees that had been classified as sawtimber trees at the beginning of the year, but were reclassified during the year as rough or rotten trees.

Mortality of growing stock.--The volume of sound wood in growing-stock trees dying annually from natural causes. Natural causes include fire, insects, disease, animal damage, weather, and suppression.

Mortality of sawtimber.--The net board-foot volume of sawtimber trees dying annually from natural causes.

Timber Removals

Timber removals from growing stock.--The volume of sound wood in growing-stock trees removed annually for forest products (including roundwood products and logging residues) and for other removals (see glossary for volume of growing stock, p. 4). Roundwood products are logs, bolts, or other round sections cut and used from trees. Logging residues are the unused portions of cut trees plus unused trees killed by logging. Other removals are growing-stock trees removed but not utilized for products or trees left standing but "removed" from the commercial forest land classification by land use change--examples are removals from cultural operations such as timber stand improvement work, land clearing, and changes in land use.

Timber removals from sawtimber.--The net board-foot volume of live sawtimber trees removed for forest products annually (including roundwood products and logging residues) and for other removals (see glossary for volume of sawtimber, p. 4).

Timber products output.--All timber products cut from roundwood, and byproducts of wood manufacturing plants. Roundwood products include logs, bolts, or other round sections cut from growing-stock trees,

cull trees, salvable dead trees, trees on nonforest land, noncommercial species, sapling-size trees, and limbwood. Byproducts from primary manufacturing plants include slabs, edgings, trimmings, miscuts, sawdust, shavings, veneer cores and clippings, and screenings of pulpmills that are used as pulp chips or other products.

Plant byproducts.--Wood products, such as pulpwood chips, obtained incidental to production of other manufactured products.

Plant residues.--Wood materials from manufacturing plants not utilized for some product.

★ U. S. GOVERNMENT PRINTING OFFICE 1974--762789/20 REGION NO. 6

NOTE

● References to information concerning growth, mortality, and removals are dated 1971, but information concerning forest area and timber inventory incorporates changes that occurred during calendar year 1971; therefore, they represent conditions as of January 1, 1972, and are dated 1972.

● Many of the terms used in this Resource Bulletin have specialized meanings, which are defined in "Glossary of Terms Used in Resource Bulletins Reporting Missouri's 1972 Timber Resource." Copies of this Glossary can be obtained from the North Central Forest Experiment Station.

CONTENTS

Highlights 1
Tables 2
Principal Tree Species in Missouri's Prairie Unit . 97
Appendix 98
  Accuracy of Survey 98
  Survey Procedure 99
  Managed Harvest 99
  Log Grade 100

TIMBER RESOURCE OF MISSOURI'S PRAIRIE, 1972

Jerold T. Hahn and Alexander Vasilevsky

HIGHLIGHTS[1]

Forest Area

Forest land occupies 2.0 million acres (10 percent of the Unit's land area) as compared to 2.4 million acres (12 percent) in 1959.

Commercial forest land totaled 1.9 million acres in 1972, as compared to 2.4 million acres in 1959.

Pike County contains the Unit's largest area of commercial forest (92 thousand acres), followed by Lincoln County (79 thousand), Vernon County (64 thousand), and Macon County (63 thousand).

Farmers, private individuals, and corporations not directly engaged in timber processing own 99 percent of the commercial forest.

The black-scarlet oak type (487 thousand acres) and white oak type (480 thousand acres) dominated the commercial forest in 1972 in contrast to 1959 when the elm-ash-cottonwood type (780 thousand acres) and the black-scarlet oak type (672 thousand acres) contained the largest areas.

Poletimber stands and sawtimber stands each contained 38 percent of the commercial forest area.

Timber Volume

Volume of growing stock on commercial forest land was 922 million cubic feet in 1972, as compared to 1,091 million cubic feet in 1959--a 15-percent decline.

Sawtimber volume declined 11 percent from 2.8 billion board feet in 1959 to 2.5 billion board feet in 1972.

Together, the oaks account for 57 percent of the growing-stock volume in 1972.

Average volume per acre of growing stock is 475 cubic feet (6.0 cords).

Farmers, private individuals, and corporations not directly engaged in timber processing own 99 percent of the growing-stock volume.

Volume in rough and rotten trees that are alive (nongrowing-stock trees) is 702 million cubic feet, mostly in rough trees.

Short-log trees (rough trees) account for 128 million cubic feet.

Stand Conditions

In 1971, net annual growth on growing-stock trees was 30 million cubic feet (376 thousand cords).

Net annual growth rate of growing stock was 3.2 percent of inventory volume.

Mortality of growing-stock trees amounted to 5 million cubic feet (60 thousand cords), largely caused by disease.

Seventy-three percent of the commercial forest area is capable of growing trees 50 feet and taller at age 50, but only 21 percent is capable of growing trees 70 feet and taller at age 50.

Sixty-five percent of the commercial forest includes stands younger than 50 years old.

Sixty-two percent of the commercial forest is classified as poorly stocked and an additional 18 percent as nonstocked with growing-stock trees (see Glossary for nonstocked areas, page 2).

Timber Use

In 1971 timber removals from growing stock amounted to 47 million cubic feet

---

[1] *Published 1959 statistics have been adjusted to be comparable with 1972 data because of changed definitions and procedures used during the two surveys.*

(589 thousand cords)--57 percent more than the volume of net annual growth. (See Glossary for timber removals, page 5.)

Three-fourths (35 million cubic feet) of the growing-stock removals were classed as "other" removals so they were not utilized. (See Glossary for timber removals, page 5.)

In 1969 total timber products output was 17 million cubic feet, of which 7 million cubic feet were in saw logs and 4 million cubic feet were in fuelwood.

In 1969 primary plant wood residues totaled 4 million cubic feet, of which 2 million cubic feet are not used.[2]

Managed Harvest[3]

During the period 1972 through 1981, the estimated annual managed harvest from growing stock on commercial forest land will average 21 million cubic feet (267 thousand cords)--17 million cubic feet from harvest cuttings and 4 million cubic feet from thinnings.

During the same period, the estimated annual managed harvest from rough and rotten (nongrowing-stock) trees will average 19 million cubic feet (237 thousand cords).

TABLES

Area:

1. Area of land by land class, 1959 and 1972.

2. Area of land and forest land, by county.

3. Area of commercial forest land for survey unit and for individual counties within unit, by forest type and stand-size class.

4. Area of commercial forest land, by county and ownership class.

5. Area of commercial forest land, by stand-volume and ownership class.

6. Area of commercial forest land, by area-condition and ownership class.

7. Area of commercial forest land, by site and ownership class.

8. Area of commercial forest land, by forest type and ownership class.

9. Area of commercial forest land, by forest type and stand-age class.

10. Area of commercial forest land, by forest type and site-index class.

11. Area of commercial forest land, by forest type and basal-area class.

12. Area of commercial forest land, by forest type, stand-size, and site class.

13. Area of commercial forest land, by stocking class based on selected stand components.

14. Area of commercial forest land, by stocking class of growing-stock trees and stand-size class.

15. Area of noncommercial forest land, by ownership class.

16. Area of noncommercial forest land, by forest type.

Number of Trees:

17. Number of all live trees on commercial forest land, by species and diameter class.

18. Number of growing-stock trees on commercial forest land, by species and diameter class.

19. Number of short-log trees on commercial forest land, by species and diameter class.

Volume:

20. Net volume of growing stock and sawtimber on commercial forest land, by species, 1959 and 1972.

21. Net volume on commercial forest land for survey unit and for individual counties within unit, by species and kind of material.

---

[2] *Primary plants are those using logs and bolts or chips, shavings, etc., from logs and bolts.*

[3] *Managed harvest is defined in the appendix on page 99 .*

22. Net volume of timber on commercial forest land, by class of timber, and softwoods and hardwoods.

23. Net volume of growing stock, sawtimber, and rough and rotten trees on commercial forest land, by individual species.

24. Net volume of growing stock and sawtimber on commercial forest land, by ownership class and species group.

25. Net volume of growing stock on commercial forest land, by species and diameter class.

26. Net volume of sawtimber on commercial forest land, by species and diameter class.

27. Net volume of growing stock on commercial forest land, by species and forest type.

28. Net volume of sawtimber on commercial forest land, by species and forest type.

29. Net volume of timber in cull trees on commercial forest land, by species and cull tree class.

30. Net volume of short-log trees on commercial forest land, by species and diameter class.

31. Net volume of sawtimber on commercial forest land, by species and log grade class.

32. Walnut volume on nonforest land, by diameter class and class of timber.

Growth and Removals:

33. Net annual growth of growing stock and sawtimber on commercial forest land, by species and county.

34. Timber removals from growing stock and sawtimber on commercial forest land, by item and species group.

35. Timber removals from growing stock and sawtimber on commercial forest land, by species and county.

Mortality:

36. Annual mortality of growing stock and sawtimber on commercial forest land, by cause and softwoods and hardwoods.

37. Annual mortality of growing stock and sawtimber on commercial forest land, by species.

Utilization:

38. Output of timber products, by source of material and softwoods and hardwoods.

39. Forest products harvested, by ownership class and product.

40. Volume of primary plant residue, by kind of material and type of use.

41. Timber products output from roundwood, by species and product.

Annual Managed Harvest:

42. Average annual managed harvest for 1972-1981 from harvest cuttings and thinnings on commercial forest land, by species and kind of material.

43. Average annual managed harvest of growing stock for 1972-1981 from harvest cuttings and thinnings on commercial forest land, by species and forest type.

44. Average annual managed harvest of growing stock for 1972-1981 from harvest cuttings and thinnings on commercial forest land, by species and stand-volume class.

45. Average annual managed harvest for 1972-1981, by harvest cuttings of growing stock on commercial forest land, by species and stand-volume class.

46. Average annual managed harvest for 1972-1981, by thinnings of growing stock on commercial forest land, by species and stand-volume class.

47. Average annual managed harvest of sawtimber for 1972-1981 from harvest cuttings and thinnings on commercial forest land, by species and forest type.

48. Average annual managed harvest of sawtimber for 1972-1981 from harvest cuttings and thinnings on commercial forest land, by species and stand-volume class.

49. Average annual managed harvest for 1972-1981, by harvest cuttings of sawtimber on commercial forest land, by species and stand-volume class.

50. Average annual managed harvest for 1972-1981, by thinnings of sawtimber on commercial forest land, by species and stand-volume class.

51. Area of managed harvest for 1972-1981, by harvest cuttings on commercial forest land by forest type and stand-age class.

52. Area of managed harvest by thinnings on commercial forest land for 1972-1981, by forest type and stand-age class.

Text Tables:

53. Sampling errors for estimates smaller than unit totals of volume, net growth, and removals, and of area of commercial forest land.

54. Forest type, site index, and rotation age by management objective used in calculation of annual managed harvest, Missouri.

Table 1.--*Area of land by land class, Prairie, Missouri, 1959 and 1972*

(Thousand acres)

LAND CLASS	1959[1/]	1972
COMMERCIAL FOREST LAND:		
POST-BLACKJACK OAK TYPE	82.79	137.50
BLACK-SCARLET OAK TYPE	671.64	486.70
WHITE OAK TYPE	315.62	480.30
OAK-GUM-CYPRESS TYPE	99.04	107.40
ELM-ASH-COTTONWOOD TYPE	779.64	294.50
MAPLE-BEECH TYPE	37.97	85.00
NONSTOCKED	422.11	349.00
SUBTOTAL	2,408.81	1,940.40
NONCOMMERCIAL FOREST LAND:		
UNPRODUCTIVE	15.90	15.90
PRODUCTIVE-RESERVED	15.40	46.50
SUBTOTAL	31.30	62.40
NONFOREST LAND	17,116.79	17,545.40
TOTAL	19,556.90	19,548.20

1/ FIGURES HAVE BEEN ADJUSTED FROM THOSE PUBLISHED PREVIOUSLY FOR 1959 TO CONFORM TO 1972 LAND CLASSES BECAUSE OF CHANGES IN SURVEY DEFINITIONS AND PROCEDURES.

Table 2.--*Area of land and forest land, by county, Prairie, Missouri, 1972*

County	Land area	Forest land			Commercial forest as a percent of land area
		All forest	Noncommercial	Commercial	
		-Thousand acres-			Percent
Adair	365.8	52.6	3.3	49.3	13
Andrew	278.9	16.2	.1	16.1	6
Atchison	351.5	14.0	.1	13.9	4
Audrain	442.9	29.3	.2	29.1	7
Barton	380.2	25.7	.1	25.6	7
Bates	538.4	49.5	.2	49.3	9
Buchanan	258.4	19.8	.1	19.7	8
Caldwell	275.2	17.8	.1	17.7	6
Carroll	446.0	27.1	.2	26.9	6
Cass	446.5	34.9	.4	34.5	8
Chariton	482.4	42.1	.2	41.9	9
Clark	323.6	53.6	.4	53.2	16
Clay	263.6	22.5	.5	22.0	8
Clinton	268.7	18.9	.4	18.5	7
Cooper	361.9	49.0	.4	48.6	13
Dade	322.6	49.1	10.0	39.1	12
Daviess	360.3	32.6	.3	32.3	9
Dekalb	270.7	13.9	.1	13.8	5
Gentry	312.3	25.9	.2	25.7	8
Greene	433.0	58.9	.4	58.5	14
Grundy	278.4	27.1	.7	26.4	9
Harrison	460.8	45.1	.4	44.7	10
Henry	469.6	60.4	21.6	38.8	8
Holt	292.9	18.9	.1	18.8	6
Jackson	385.6	22.6	.1	22.5	6
Jasper	410.9	46.8	.4	46.4	11
Johnson	528.6	54.1	3.5	50.6	10
Knox	327.7	33.0	.3	32.7	10
Lafayette	404.2	22.0	.1	21.9	5
Lawrence	396.2	50.2	.7	49.5	12
Lewis	324.9	48.0	.5	47.5	15
Lincoln	400.1	86.0	6.6	79.4	20
Linn	398.4	30.5	1.2	29.3	7
Livingston	339.4	30.4	.1	30.3	9
Macon	520.7	63.9	.7	63.2	12
Marion	280.3	42.7	.6	42.1	15
Mercer	291.0	29.0	.3	28.7	10
Monroe	428.2	51.9	1.4	50.5	12
Nodaway	561.3	25.4	.1	25.3	5
Pettis	434.4	40.9	.3	40.6	9
Pike	435.9	93.0	.9	92.1	21
Platte	273.1	32.6	.3	32.3	12
Putnam	331.5	40.9	.4	40.5	12
Ralls	306.0	47.7	.4	47.3	15
Randolph	309.5	49.8	.6	49.2	16
Ray	366.8	38.8	.4	38.4	10
Saline	484.6	32.2	.7	31.5	7
Schuyler	195.8	13.5	.1	13.4	7
Scotland	282.2	21.4	.1	21.3	8
Shelby	320.8	35.2	.3	34.9	11
Sullivan	418.5	38.8	.3	38.5	9
Vernon	536.1	64.1	.4	63.7	12
Worth	170.9	12.5	.1	12.4	7
All counties	19,548.2	2,002.8	62.4	1,940.4	10

Table 3.--*Area of commercial forest land for Missouri's Prairie Survey Unit and for individual counties within Unit, by forest type and stand-size class, 1972*

(Thousand acres)

Forest type	All stands	Sawtimber stands	Poletimber stands	Sapling and seedling stands	Nonstocked areas
ALL COUNTIES					
Post-blackjack oak	137.5	26.5	101.4	9.6	--
Black-scarlet oak	486.7	187.4	259.0	40.3	--
White oak	480.3	246.5	203.5	30.3	--
Oak-gum-cypress[1]	107.4	47.0	49.2	11.2	--
Elm-ash-cottonwood	294.5	181.4	93.3	19.8	--
Maple-beech	85.0	47.0	38.0	--	--
Nonstocked[2]	349.0	--	--	--	349.0
All forest types	1,940.4	735.8	744.4	111.2	349.0
ADAIR COUNTY					
Post-blackjack oak	1.6	--	1.6	--	--
Black-scarlet oak	14.4	3.3	10.6	.5	--
White oak	17.5	7.0	9.1	1.4	--
Oak-gum-cypress 1/	2.8	.7	1.6	.5	--
Elm-ash-cottonwood	3.6	1.8	1.7	.1	--
Maple-beech	2.2	1.0	1.2	--	--
Nonstocked 2/	7.2	--	--	--	7.2
All forest types	49.3	13.8	25.8	2.5	7.2
ANDREW COUNTY					
Post-blackjack oak	.3	--	.3	--	--
Black-scarlet oak	3.6	1.0	2.4	.2	--
White oak	3.9	1.5	2.1	.3	--
Oak-gum-cypress 1/	.7	.3	.3	.1	--
Elm-ash-cottonwood	1.7	1.1	.5	.1	--
Maple-beech	1.8	1.1	.7	--	--
Nonstocked 2/	4.1	--	--	--	4.1
All forest types	16.1	5.0	6.3	.7	4.1
ATCHISON COUNTY					
Post-blackjack oak	.3	--	.3	--	--
Black-scarlet oak	3.2	1.0	1.9	.3	--
White oak	3.9	1.8	1.8	.3	--
Oak-gum-cypress 1/	.6	.3	.3	--	--
Elm-ash-cottonwood	3.5	2.3	1.1	.1	--
Maple-beech	.6	.3	.3	--	--
Nonstocked 2/	1.8	--	--	--	1.8
All forest types	13.9	5.7	5.7	.7	1.8
AUDRAIN COUNTY					
Post-blackjack oak	.5	--	.5	--	--
Black-scarlet oak	5.2	1.6	3.2	.4	--
White oak	7.0	3.4	3.1	.5	--
Oak-gum-cypress 1/	1.9	.8	.9	.2	--
Elm-ash-cottonwood	8.3	5.1	2.9	.3	--
Maple-beech	1.6	.7	.9	--	--
Nonstocked 2/	4.6	--	--	--	4.6
All forest types	29.1	11.6	11.5	1.4	4.6

1/ Includes only bottomland oaks--no gum or cypress.
2/ See glossary for stand-size classes (page 3).

(Table 3 cont. on next page)

(Table 3 cont.)

Forest type	All stands	Sawtimber stands	Poletimber stands	Sapling and seedling stands	Nonstocked areas
BARTON COUNTY					
Post-blackjack oak	2.3	.6	1.5	.2	--
Black-scarlet oak	5.9	3.5	1.6	.8	--
White oak	2.8	2.0	.8	--	--
Oak-gum-cypress 1/	1.3	.9	.4	--	--
Elm-ash-cottonwood	5.0	3.4	1.1	.5	--
Maple-beech	.8	.8	--	--	--
Nonstocked 2/	7.5	--	--	--	7.5
All forest types	25.6	11.2	5.4	1.5	7.5
BATES COUNTY					
Post-blackjack oak	5.4	1.1	3.9	.4	--
Black-scarlet oak	10.7	6.1	3.1	1.5	--
White oak	4.9	3.9	1.0	--	--
Oak-gum-cypress 1/	3.1	2.0	1.1	--	--
Elm-ash-cottonwood	11.6	7.7	2.8	1.1	--
Maple-beech	1.6	1.6	--	--	--
Nonstocked 2/	12.0	--	--	--	12.0
All forest types	49.3	22.4	11.9	3.0	12.0
BUCHANAN COUNTY					
Post-blackjack oak	.2	--	.2	--	--
Black-scarlet oak	3.0	1.0	1.8	.2	--
White oak	3.5	1.7	1.5	.3	--
Oak-gum-cypress 1/	1.4	.4	.7	.3	--
Elm-ash-cottonwood	4.8	2.6	1.9	.3	--
Maple-beech	2.3	.8	1.5	--	--
Nonstocked 2/	4.5	--	--	--	4.5
All forest types	19.7	6.5	7.6	1.1	4.5
CALDWELL COUNTY					
Post-blackjack oak	.2	--	.2	--	--
Black-scarlet oak	3.0	1.1	1.7	.2	--
White oak	3.8	2.1	1.5	.2	--
Oak-gum-cypress 1/	1.0	.4	.6	--	--
Elm-ash-cottonwood	5.2	3.1	1.8	.3	--
Maple-beech	1.0	.7	.3	--	--
Nonstocked 2/	3.5	--	--	--	3.5
All forest types	17.7	7.4	6.1	.7	3.5
CARROLL COUNTY					
Post-blackjack oak	.5	--	.5	--	--
Black-scarlet oak	5.7	1.9	3.4	.4	--
White oak	7.4	3.5	3.3	.6	--
Oak-gum-cypress 1/	1.6	.8	.6	.2	--
Elm-ash-cottonwood	7.1	4.8	2.1	.2	--
Maple-beech	1.3	.7	.6	--	--
Nonstocked 2/	3.3	--	--	--	3.3
All forest types	26.9	11.7	10.5	1.4	3.3

1/ Includes only bottomland oaks--no gum or cypress.

2/ See glossary for stand-size classes (page 3).

(Table 3 cont. on next page)

(Table 3 cont.)

Forest type	All stands	Sawtimber stands	Poletimber stands	Sapling and seedling stands	Nonstocked areas
CASS COUNTY					
Post-blackjack oak	6.3	1.9	3.6	.8	--
Black-scarlet oak	11.2	6.5	3.2	1.5	--
White oak	4.9	3.1	1.8	--	--
Oak-gum-cypress 1/	1.4	1.1	.3	--	--
Elm-ash-cottonwood	2.7	1.4	.7	.6	--
Maple-beech	.2	.2	--	--	--
Nonstocked 2/	7.8	--	--	--	7.8
All forest types	34.5	14.2	9.6	2.9	7.8
CHARITON COUNTY					
Post-blackjack oak	.5	--	.5	--	--
Black-scarlet oak	6.8	2.6	3.7	.5	--
White oak	9.8	5.4	3.8	.6	--
Oak-gum-cypress 1/	3.2	1.3	1.2	.7	--
Elm-ash-cottonwood	13.1	8.2	4.3	.6	--
Maple-beech	2.2	1.0	1.2	--	--
Nonstocked 2/	6.3	--	--	--	6.3
All forest types	41.9	18.5	14.7	2.4	6.3
CLARK COUNTY					
Post-blackjack oak	1.1	--	1.1	--	--
Black-scarlet oak	13.1	4.8	7.9	.4	--
White oak	17.8	9.1	7.3	1.4	--
Oak-gum-cypress 1/	3.1	1.2	1.3	.6	--
Elm-ash-cottonwood	7.3	4.7	2.3	.3	--
Maple-beech	2.6	1.3	1.3	--	--
Nonstocked 2/	8.2	--	--	--	8.2
All forest types	53.2	21.1	21.2	2.7	8.2
CLAY COUNTY					
Post-blackjack oak	.3	--	.3	--	--
Black-scarlet oak	4.1	1.3	2.6	.2	--
White oak	4.6	2.1	2.2	.3	--
Oak-gum-cypress 1/	1.5	.4	.9	.2	--
Elm-ash-cottonwood	5.8	3.1	2.3	.4	--
Maple-beech	1.6	.6	1.0	--	--
Nonstocked 2/	4.1	--	--	--	4.1
All forest types	22.0	7.5	9.3	1.1	4.1
CLINTON COUNTY					
Post-blackjack oak	.2	--	.2	--	--
Black-scarlet oak	3.1	.9	1.9	.3	--
White oak	3.3	1.7	1.4	.2	--
Oak-gum-cypress 1/	1.6	.5	.8	.3	--
Elm-ash-cottonwood	6.4	4.0	2.1	.3	--
Maple-beech	1.2	.5	.7	--	--
Nonstocked 2/	2.7	--	--	--	2.7
All forest types	18.5	7.6	7.1	1.1	2.7

1/ Includes only bottomland oaks--no gum or cypress.

2/ See glossary for stand-size classes (page 3).

(Table 3 cont. on next page)

(Table 3 cont.)

COOPER COUNTY

Forest type	All stands	Sawtimber stands	Poletimber stands	Sapling and seedling stands	Nonstocked areas
Post-blackjack oak	12.0	2.8	8.4	.8	--
Black-scarlet oak	15.0	6.9	5.4	2.7	--
White oak	6.2	4.3	1.9	--	--
Oak-gum-cypress 1/	2.5	1.3	1.2	--	--
Elm-ash-cottonwood	3.8	2.3	.6	.9	--
Maple-beech	.3	.3	--	--	--
Nonstocked 2/	8.8	--	--	--	8.8
All forest types	48.6	17.9	17.5	4.4	8.8

DADE COUNTY

Post-blackjack oak	8.5	1.8	6.0	.7	---
Black-scarlet oak	12.1	5.1	5.0	2.0	--
White oak	4.5	2.7	1.8	--	--
Oak-gum-cypress 1/	1.6	.8	.8	--	--
Elm-ash-cottonwood	2.8	1.4	.7	.7	--
Maple-beech	.4	.4	--	--	--
Nonstocked 2/	9.2	--	--	--	9.2
All forest types	39.1	12.2	14.3	3.4	9.2

DAVIESS COUNTY

Post-blackjack oak	.8	--	.8	--	--
Black-scarlet oak	9.2	2.8	6.1	.3	--
White oak	11.5	5.3	5.3	.9	--
Oak-gum-cypress 1/	1.5	.5	.8	.2	--
Elm-ash-cottonwood	3.2	2.0	1.1	.1	--
Maple-beech	2.0	.8	1.2	--	--
Nonstocked 2/	4.1	--	--	--	4.1
All forest types	32.3	11.4	15.3	1.5	4.1

DEKALB COUNTY

Post-blackjack oak	.2	--	.2	--	--
Black-scarlet oak	2.9	1.2	1.5	.2	--
White oak	3.5	1.9	1.4	.2	--
Oak-gum-cypress 1/	.9	.4	.4	.1	--
Elm-ash-cottonwood	2.6	1.7	.8	.1	--
Maple-beech	1.0	.7	.3	--	--
Nonstocked 2/	2.7	--	--	--	2.7
All forest types	13.8	5.9	4.6	.6	2.7

GENTRY COUNTY

Post-blackjack oak	.5	--	.5	--	--
Black-scarlet oak	6.1	1.6	4.2	.3	--
White oak	6.9	2.8	3.5	.6	--
Oak-gum-cypress 1/	1.2	.3	.8	.1	--
Elm-ash-cottonwood	3.3	1.7	1.5	.1	--
Maple-beech	1.9	1.4	.5	--	--
Nonstocked 2/	5.8	--	--	--	5.8
All forest types	25.7	7.8	11.0	1.1	5.8

1/ Includes only bottomland oaks--no gum or cypress.

2/ See glossary for stand-size classes (page 3)

(Table 3 cont. on next page)

(Table 3 cont.)

Forest type	All stands	Sawtimber stands	Poletimber stands	Sapling and seedling stands	Nonstocked areas
GREENE COUNTY					
Post-blackjack oak	13.9	3.0	9.8	1.1	--
Black-scarlet oak	18.4	7.7	7.4	3.3	--
White oak	7.1	4.4	2.7	--	--
Oak-gum-cypress 1/	2.6	1.2	1.4	--	--
Elm-ash-cottonwood	3.2	1.6	.6	1.0	--
Maple-beech	.4	.4	--	--	--
Nonstocked 2/	12.9	--	--	--	12.9
All forest types	58.5	18.3	21.9	5.4	12.9
GRUNDY COUNTY					
Post-blackjack oak	.4	--	.4	--	--
Black-scarlet oak	4.8	1.9	2.7	.2	--
White oak	7.1	3.8	2.8	.5	--
Oak-gum-cypress 1/	1.1	.5	.5	.1	--
Elm-ash-cottonwood	4.6	2.8	1.6	.2	--
Maple-beech	2.2	1.5	.7	--	--
Nonstocked 2/	6.2	--	--	--	6.2
All forest types	26.4	10.5	8.7	1.0	6.2
HARRISON COUNTY					
Post-blackjack oak	1.0	--	1.0	--	--
Black-scarlet oak	11.4	3.7	7.2	.5	--
White oak	14.5	7.0	6.5	1.0	--
Oak-gum-cypress 1/	2.7	.9	1.4	.4	--
Elm-ash-cottonwood	7.2	4.5	2.4	.3	--
Maple-beech	2.1	1.1	1.0	--	--
Nonstocked 2/	5.8	--	--	--	5.8
All forest types	44.7	17.2	19.5	2.2	5.8
HENRY COUNTY					
Post-blackjack oak	5.2	1.2	3.5	.5	--
Black-scarlet oak	9.1	4.9	2.8	1.4	--
White oak	3.9	2.8	1.1	--	--
Oak-gum-cypress 1/	2.1	1.4	.7	--	--
Elm-ash-cottonwood	8.1	4.7	2.5	.9	--
Maple-beech	1.2	1.2	--	--	--
Nonstocked 2/	9.2	--	--	--	9.2
All forest types	38.8	16.2	10.6	2.8	9.2
HOLT COUNTY					
Post-blackjack oak	.3	--	.3	--	--
Black-scarlet oak	3.3	.9	2.2	.2	--
White oak	3.8	1.6	1.9	.3	--
Oak-gum-cypress 1/	1.3	.4	.6	.3	--
Elm-ash-cottonwood	3.7	2.0	1.4	.3	--
Maple-beech	2.4	.6	1.8	--	--
Nonstocked 2/	4.0	--	--	--	4.0
All forest types	18.8	5.5	8.2	1.1	4.0

1/ Includes only bottomland oaks--no gum or cypress.

2/ See glossary for stand-size classes (page 3).

(Table 3 cont. on next page)

(Table 3 cont.)

Forest type	All stands	Sawtimber stands	Poletimber stands	Sapling and seedling stands	Nonstocked acres
JACKSON COUNTY					
Post-blackjack oak	2.8	.5	1.9	.4	--
Black-scarlet oak	6.6	2.6	3.0	1.0	--
White oak	2.0	1.1	.9	--	--
Oak-gum-cypress 1/	.8	.5	.3	--	--
Elm-ash-cottonwood	2.5	1.1	.8	.6	--
Maple-beech	.4	.4	--	--	--
Nonstocked 2/	7.4	--	--	--	7.4
All forest types	22.5	6.2	6.9	2.0	7.4
JASPER COUNTY					
Post-blackjack oak	6.8	2.1	4.2	.5	--
Black-scarlet oak	12.2	7.3	3.5	1.4	--
White oak	5.6	4.2	1.4	--	--
Oak-gum-cypress 1/	2.5	1.8	.7	--	--
Elm-ash-cottonwood	6.5	4.1	1.6	.8	--
Maple-beech	.8	.8	--	--	--
Nonstocked 2/	12.0	--	--	--	12.0
All forest types	46.4	20.3	11.4	2.7	12.0
JOHNSON COUNTY					
Post-blackjack oak	8.4	2.0	5.6	.8	--
Black-scarlet oak	14.0	6.4	5.5	2.1	--
White oak	5.6	3.8	1.8	--	--
Oak-gum-cypress 1/	2.3	1.4	.9	--	--
Elm-ash-cottonwood	5.7	3.3	1.5	.9	--
Maple-beech	1.0	1.0	--	--	--
Nonstocked 2/	13.6	--	--	--	13.6
All forest types	50.6	17.9	15.3	3.8	13.6
KNOX COUNTY					
Post-blackjack oak	.8	--	.8	--	--
Black-scarlet oak	8.7	2.8	5.5	.4	--
White oak	11.1	5.3	4.9	.9	--
Oak-gum-cypress 1/	1.8	.6	1.0	.2	--
Elm-ash-cottonwood	4.5	2.9	1.5	.1	--
Maple-beech	1.4	.8	.6	--	--
Nonstocked 2/	4.4	--	--	--	4.4
All forest types	32.7	12.4	14.3	1.6	4.4
LAFAYETTE COUNTY					
Post-blackjack oak	2.7	.7	1.7	.3	--
Black-scarlet oak	5.4	2.8	1.7	.9	--
White oak	2.4	1.9	.5	--	--
Oak-gum-cypress 1/	1.3	.9	.4	--	--
Elm-ash-cottonwood	4.4	3.1	.8	.5	--
Maple-beech	.5	.5	--	--	--
Nonstocked 2/	5.2	--	--	--	5.2
All forest types	21.9	9.9	5.1	1.7	5.2

1/ Includes only bottomland oaks--no gum or cypress.
2/ See glossary for stand-size classes (page 3).

(Table 3 cont. on next page)

(Table 3 cont.)

Forest type	All stands	Sawtimber stands	Poletimber stands	Sapling and seedling stands	Nonstocked areas
LAWRENCE COUNTY					
Post-blackjack oak	12.2	3.5	7.5	1.2	--
Black-scarlet oak	16.6	7.9	6.2	2.5	--
White oak	7.2	5.3	1.9	--	--
Oak-gum-cypress 1/	2.4	1.6	.8	--	--
Elm-ash-cottonwood	2.2	1.2	.3	.7	--
Maple-beech	.3	.3	--	--	--
Nonstocked 2/	8.6	--	--	--	8.6
All forest types	49.5	19.8	16.7	4.4	8.6
LEWIS COUNTY					
Post-blackjack oak	1.3	--	1.3	--	--
Black-scarlet oak	12.3	4.0	7.9	.4	--
White oak	17.0	8.4	7.4	1.2	--
Oak-gum-cypress 1/	2.4	.9	1.2	.3	--
Elm-ash-cottonwood	5.7	3.6	2.0	.1	--
Maple-beech	2.2	1.2	1.0	--	--
Nonstocked 2/	6.6	--	--	--	6.6
All forest types	47.5	18.1	20.8	2.0	6.6
LINCOLN COUNTY					
Post-blackjack oak	2.2	--	2.2	--	--
Black-scarlet oak	21.2	6.6	13.8	.8	--
White oak	28.3	13.6	12.7	2.0	--
Oak-gum-cypress 1/	4.3	1.5	2.1	.7	--
Elm-ash-cottonwood	11.1	7.1	3.7	.3	--
Maple-beech	3.0	1.7	1.3	--	--
Nonstocked 2/	9.3	--	--	--	9.3
All forest species	79.4	30.5	35.8	3.8	9.3
LINN COUNTY					
Post-blackjack oak	.3	--	.3	--	--
Black-scarlet oak	4.3	1.6	2.3	.4	--
White oak	5.9	3.2	2.3	.4	--
Oak-gum-cypress 1/	1.7	.7	.6	.4	--
Elm-ash-cottonwood	8.7	5.0	3.4	.3	--
Maple-beech	2.2	.6	1.6	--	--
Nonstocked 2/	6.2	--	--	--	6.2
All forest types	29.3	11.1	10.5	1.5	6.2
LIVINGSTON COUNTY					
Post-blackjack oak	.3	--	.3	--	--
Black-scarlet oak	5.0	1.6	3.1	.3	--
White oak	6.2	2.8	2.9	.5	--
Oak-gum-cypress 1/	1.8	.7	.7	.4	--
Elm-ash-cottonwood	7.9	4.6	2.9	.4	--
Maple-beech	2.7	1.2	1.5	--	--
Nonstocked 2/	6.4	--	--	--	6.4
All forest types	30.3	10.9	11.4	1.6	6.4

1/ Includes only bottomland oaks--no gum or cypress.

2/ See glossary for stand-size classes (page 3.)

(Table 3 cont. on next page)

(Table 3 cont.)

Forest type	All stands	Sawtimber stands	Poletimber stands	Sapling and seedling stands	Nonstocked areas
MACON COUNTY					
Post-blackjack oak	1.7	--	1.7	--	--
Black-scarlet oak	17.6	5.0	12.0	.6	--
White oak	22.3	10.0	10.5	1.8	--
Oak-gum-cypress 1/	3.5	.9	2.2	.4	--
Elm-ash-cottonwood	6.2	3.3	2.7	.2	--
Maple-beech	3.3	1.4	1.9	--	--
Nonstocked 2/	8.6	--	--	--	8.6
All forest types	63.2	20.6	31.0	3.0	8.6
MARION COUNTY					
Post-blackjack oak	1.4	--	1.4	--	--
Black-scarlet oak	11.8	3.3	8.1	.4	--
White oak	15.6	7.1	7.4	1.1	--
Oak-gum-cypress 1/	2.2	.8	1.0	.4	--
Elm-ash-cottonwood	4.4	2.8	1.5	.1	--
Maple-beech	2.1	1.1	1.0	--	--
Nonstocked 2/	4.6	--	--	--	4.6
All forest types	42.1	15.1	20.4	2.0	4.6
MERCER COUNTY					
Post-blackjack oak	.7	--	.7	--	--
Black-scarlet oak	7.7	2.6	4.8	.3	--
White oak	9.8	4.8	4.3	.7	--
Oak-gum-cypress 1/	1.4	.6	.7	.1	--
Elm-ash-cottonwood	3.1	1.9	1.1	.1	--
Maple-beech	1.7	1.3	.4	--	--
Nonstocked 2/	4.3	--	--	--	4.3
All forest types	28.7	11.2	12.0	1.2	4.3
MONROE COUNTY					
Post-blackjack oak	1.1	--	1.1	--	--
Black-scarlet oak	11.7	4.2	7.0	.5	--
White oak	16.3	8.4	6.8	1.1	--
Oak-gum-cypress 1/	2.9	1.1	1.3	.5	--
Elm-ash-cottonwood	8.4	5.2	2.9	.3	--
Maple-beech	2.3	1.0	1.3	--	--
Nonstocked 2/	7.8	--	--	--	7.8
All forest types	50.5	19.9	20.4	2.4	7.8
NODAWAY COUNTY					
Post-blackjack oak	.3	--	.3	--	--
Black-scarlet oak	5.1	1.6	3.1	.4	--
White oak	6.0	2.8	2.7	.5	--
Oak-gum-cypress 1/	1.7	.6	.7	.4	--
Elm-ash-cottonwood	5.1	3.1	1.8	.2	--
Maple-beech	2.2	.6	1.6	--	--
Nonstocked 2/	4.9	--	--	--	4.9
All forest types	25.3	8.7	10.2	1.5	4.9

1/ Includes only bottomland oaks--no gum or cypress.

2/ See glossary for stand-size classes (page 3).

(Table 3 cont. on next page)

(Table 3 cont.)

Forest type	All stands	Sawtimber stands	Poletimber stands	Sapling and seedling stands	Nonstocked areas
PETTIS COUNTY					
Post-blackjack oak	9.1	2.0	6.5	.6	--
Black-scarlet oak	11.6	5.8	3.6	2.2	--
White oak	5.2	3.6	1.6	--	--
Oak-gum-cypress[1]	2.3	1.2	1.1	--	--
Elm-ash-cottonwood	4.4	2.6	.9	.9	--
Maple-beech	.6	.6	--	--	--
Nonstocked[2]	7.4	--	--	--	7.4
All forest types	40.6	15.8	13.7	3.7	7.4
PIKE COUNTY					
Post-blackjack oak	2.3	--	2.3	--	--
Black-scarlet oak	24.7	7.9	16.0	.8	--
White oak	32.9	15.7	14.7	2.5	--
Oak-gum-cypress[1]	4.8	1.9	2.3	.6	--
Elm-ash-cottonwood	12.2	8.2	3.7	.3	--
Maple-beech	4.1	2.1	2.0	--	--
Nonstocked[2]	11.1	--	--	--	11.1
All forest types	92.1	35.8	41.0	4.2	11.1
PLATTE COUNTY					
Post-blackjack oak	.6	--	.6	--	--
Black-scarlet oak	7.0	1.4	5.3	.3	--
White oak	6.9	2.1	4.1	.7	--
Oak-gum-cypress[1]	2.2	.5	1.4	.3	--
Elm-ash-cottonwood	4.8	2.3	2.3	.2	--
Maple-beech	3.4	1.5	1.9	--	--
Nonstocked[2]	7.4	--	--	--	7.4
All forest types	32.3	7.8	15.6	1.5	7.4
PUTNAM COUNTY					
Post-blackjack oak	1.0	--	1.0	--	--
Black-scarlet oak	11.0	3.4	7.2	.4	--
White oak	14.0	6.5	6.4	1.1	--
Oak-gum cypress[1]	2.2	.8	1.1	.3	--
Elm-ash-cottonwood	4.3	2.8	1.4	.1	--
Maple-beech	1.8	.9	.9	--	--
Nonstocked[2]	6.2	--	--	--	6.2
All forest types	40.5	14.4	18.0	1.9	6.2
RALLS COUNTY					
Post-blackjack oak	1.1	--	1.1	--	--
Black-scarlet oak	12.2	4.5	7.3	.4	--
White oak	16.8	8.8	6.9	1.1	--
Oak-gum-cypress[1]	2.5	1.0	1.2	.3	--
Elm-ash-cottonwood	5.5	3.6	1.7	.2	--
Maple-beech	2.2	1.0	1.2	--	--
Nonstocked[2]	7.0	--	--	--	7.0
All forest types	47.3	18.9	19.4	2.0	7.0

1/ Includes only bottomland oaks--no gum or cypress.

2/ See glossary for stand-size classes (page 3).

(Table 3 cont. on next page)

(Table 3 cont.)

RANDOLPH COUNTY

Forest type	All stands	Sawtimber stands	Poletimber stands	Sapling and seedling stands	Nonstocked areas
Post-blackjack oak	1.5	--	1.5	--	
Black-scarlet oak	13.9	4.5	8.9	.5	--
White oak	18.7	9.1	8.3	1.3	--
Oak-gum-cypress 1/	2.7	.9	1.5	.3	--
Elm-ash-cottonwood	4.1	2.7	1.4	--	--
Maple-beech	1.6	1.0	.6	--	--
Nonstocked 2/	6.7	--	--	--	6.7
All forest types	49.2	18.2	22.2	2.1	6.7

RAY COUNTY

Post-blackjack oak	.8	--	.8	--	--
Black-scarlet oak	8.7	2.2	6.1	.4	--
White oak	9.8	3.8	5.2	.8	--
Oak-gum-cypress 1/	2.7	.8	1.5	.4	--
Elm-ash-cottonwood	6.6	3.5	2.8	.3	--
Maple-beech	2.1	.8	1.3	--	--
Nonstocked 2/	7.7	--	--	--	7.7
All forest types	38.4	11.1	17.7	1.9	7.7

SALINE COUNTY

Post-blackjack oak	5.6	1.3	3.7	.6	--
Black-scarlet oak	8.3	4.0	2.8	1.5	--
White oak	3.4	2.4	1.0	--	--
Oak-gum-cypress 1/	1.6	1.0	.6	--	--
Elm-ash-cottonwood	4.7	2.7	1.2	.8	--
Maple-beech	.6	.6	--	--	--
Nonstocked 2/	7.3	--	--	--	7.3
All forest types	31.5	12.0	9.3	2.9	7.3

SCHUYLER COUNTY

Post-blackjack oak	.3	--	.3	--	--
Black-scarlet oak	3.4	1.1	2.2	.1	--
White oak	4.3	2.0	1.9	.4	--
Oak-gum-cypress 1/	.6	.3	.2	.1	--
Elm-ash-cottonwood	1.7	1.1	.5	.1	--
Maple-beech	.6	.3	.3	--	--
Nonstocked 2/	2.5	--	--	--	2.5
All forest types	13.4	4.8	5.4	.7	2.5

SCOTLAND COUNTY

Post-blackjack oak	.3	--	.3	--	--
Black-scarlet oak	4.3	1.8	2.3	.2	--
White oak	6.5	3.6	2.4	.5	--
Oak-gum-cypress 1/	1.3	.4	.6	.3	--
Elm-ash-cottonwood	4.0	2.6	1.3	.1	--
Maple-beech	1.0	.5	.5	--	--
Nonstocked 2/	3.9	--	--	--	3.9
All forest types	21.3	8.9	7.4	1.1	3.9

1/ Includes only bottomland oaks--no gum or cypress.

2/ See glossary for stand-size classes (page 3).

(Table 3 cont. on next page)

(Table 3 cont.)

Forest type	All stands	Sawtimber stands	Poletimber stands	Sapling and seedling stands	Nonstocked areas
SHELBY COUNTY					
Post-blackjack oak	.8	--	.8	--	--
Black-scarlet oak	8.4	3.3	4.8	.3	--
White oak	12.1	6.7	4.6	.8	--
Oak-gum-cypress 1/	1.7	.7	.9	.1	--
Elm-ash-cottonwood	5.6	3.7	1.7	.2	--
Maple-beech	1.4	1.0	.4	--	--
Nonstocked 2/	4.9	--	--	--	4.9
All forest types	34.9	15.4	13.2	1.4	4.9
SULLIVAN COUNTY					
Post-blackjack oak	.8	--	.8	--	--
Black-scarlet oak	9.4	3.4	5.6	.4	--
White oak	12.3	6.1	5.2	1.0	--
Oak-gum-cypress 1/	1.9	.8	.8	.3	--
Elm-ash-cottonwood	5.8	3.8	1.8	.2	--
Maple-beech	2.2	1.0	1.2	--	--
Nonstocked 2/	6.1	--	--	--	6.1
All forest types	38.5	15.1	15.4	1.9	6.1
VERNON COUNTY					
Post-blackjack oak	7.5	2.0	4.8	.7	--
Black-scarlet oak	15.2	9.5	3.9	1.8	--
White oak	8.2	6.7	1.5	--	--
Oak-gum-cypress 1/	4.5	3.0	1.5	--	--
Elm-ash-cottonwood	13.9	10.3	2.7	.9	--
Maple-beech	1.8	1.8	--	--	--
Nonstocked 2/	12.6	--	--	--	12.6
All forest types	63.7	33.3	14.4	3.4	12.6
WORTH COUNTY					
Post-blackjack oak	.3	--	.3	--	--
Black-scarlet oak	3.1	1.0	2.0	.1	--
White oak	3.8	1.8	1.7	.3	--
Oak-gum-cypress 1/	.7	.3	.3	.1	--
Elm-ash-cottonwood	1.9	1.2	.6	.1	--
Maple-beech	.6	.3	.3	--	--
Nonstocked 2/	2.0	--	--	--	2.0
All forest types	12.4	4.6	5.2	.6	2.0

1/Includes only bottomland oaks--no gum or cypress.
2/See glossary for stand-size classes (page 3).

Table 4.--*Area of commercial forest land, by county and ownership class, Prairie, Missouri, 1972*

(Thousand acres)

COUNTY	ALL OWNERSHIPS	FEDERAL	STATE, COUNTY AND MUNICIPAL	FOREST INDUSTRY	FARMER AND MISCELLANEOUS PRIVATE
ADAIR	49.3	--	0.1	--	49.2
ANDREW	16.1	--	.4	--	15.7
ATCHISON	13.9	--	1.2	--	12.7
AUDRAIN	29.1	--	.1	--	29.0
BARTON	25.6	--	.1	--	25.5
BATES	49.3	--	--	.1	49.2
BUCHANAN	19.7	--	.2	--	19.5
CALDWELL	17.7	--	--	--	17.7
CARROLL	26.9	--	--	--	26.9
CASS	34.5	--	--	--	34.5
CHARITON	41.9	2.0	--	.2	39.7
CLARK	53.2	--	--	--	53.2
CLAY	22.0	--	--	--	22.0
CLINTON	18.5	--	--	--	18.5
COOPER	48.6	--	.1	--	48.5
DADE	39.1	--	--	--	39.1
DAVIESS	32.3	--	--	--	32.3
DEKALB	13.8	--	--	--	13.8
GENTRY	25.7	--	--	--	25.7
GREENE	58.5	--	--	--	58.5
GRUNDY	26.4	--	--	--	26.4
HARRISON	44.7	--	--	--	44.7
HENRY	38.8	--	1.0	--	37.8
HOLT	18.8	.2	.2	--	18.4
JACKSON	22.5	.8	.7	--	21.0
JASPER	46.4	--	--	--	46.4
JOHNSON	50.6	--	--	--	50.6
KNOX	32.7	--	--	--	32.7
LAFAYETTE	21.9	--	--	--	21.9
LAWRENCE	49.5	.3	--	--	49.2
LEWIS	47.5	--	3.0	--	44.5
LINCOLN	79.4	--	1.2	--	78.2
LINN	29.3	--	.4	--	28.9
LIVINGSTON	30.3	--	.2	--	30.1
MACON	63.2	--	1.0	--	62.2
MARION	42.1	--	--	--	42.1
MERCER	28.7	--	--	--	28.7
MONROE	50.5	--	--	--	50.5
NODAWAY	25.3	--	--	--	25.3
PETTIS	40.6	--	.2	--	40.4
PIKE	92.1	--	1.2	--	90.9
PLATTE	32.3	--	--	--	32.3
PUTNAM	40.5	--	--	--	40.5
RALLS	47.3	--	.5	--	46.8
RANDOLPH	49.2	--	1.1	.1	48.0
RAY	38.4	--	--	--	38.4
SALINE	31.5	--	.3	--	31.2
SCHUYLER	13.4	--	--	--	13.4
SCOTLAND	21.3	--	--	--	21.3
SHELBY	34.9	--	.1	--	34.8
SULLIVAN	38.5	--	--	--	38.5
VERNON	63.7	--	1.3	--	62.4
WORTH	12.4	--	--	--	12.4
ALL COUNTIES	1,940.4	3.3	14.6	.4	1,922.1

Table 5.--*Area of commercial forest land, by stand-volume and ownership class, Prairie, Missouri, 1972*

(Thousand acres)

STAND VOLUME PER ACRE (BOARD FEET)1/	ALL OWNERSHIPS	FEDERAL	STATE, COUNTY AND MUNICIPAL	FOREST INDUSTRY	FARMER AND MISCELLANEOUS PRIVATE
LESS THAN 1,500	1,325.6	3.3	13.9	0.3	1,308.1
1,500 TO 5,000	525.1	--	.7	.1	524.3
MORE THAN 5,000	89.7	--	--	--	89.7
ALL CLASSES	1,940.4	3.3	14.6	.4	1,922.1

1/ INTERNATIONAL 1/4-INCH RULE.

Table 6.--*Area of commercial forest land, by area-condition and ownership class, Prairie, Missouri, 1972*

(Thousand acres)

AREA-CONDITION CLASS1/	ALL OWNERSHIPS	FEDERAL	STATE, COUNTY AND MUNICIPAL	FOREST INDUSTRY	FARMER AND MISCELLANEOUS PRIVATE
50	8.2	2.2	--	--	6.0
60	419.2	--	.6	--	418.6
70	1,513.0	1.1	14.0	.4	1,497.5
ALL CLASSES	1,940.4	3.3	14.6	.4	1,922.1

1/ SEE GLOSSARY FOR AREA-CONDITION CLASSES (PAGE 2).

Table 7.--*Area of commercial forest land, by site and ownership class, Prairie, Missouri, 1972*

(Thousand acres)

SITE CLASS (CUBIC FEET OF GROWTH PER ACRE PER YEAR)	ALL OWNERS	FEDERAL	STATE, COUNTY AND MUNICIPAL	FOREST INDUSTRY	FARMER AND MISCELLANEOUS PRIVATE
120 OR MORE	4.3	--	--	--	4.3
85-119	98.1	2.2	.6	--	95.3
50-84	472.2	--	1.3	--	470.9
LESS THAN 50	1,365.8	1.1	12.7	.4	1,351.6
ALL CLASSES	1,940.4	3.3	14.6	.4	1,922.1

Table 8.--*Area of commercial forest land, by forest type and ownership class, Prairie, Missouri, 1972*

(Thousand acres)

FOREST TYPE	ALL OWNERSHIPS	FEDERAL	STATE, COUNTY AND MUNICIPAL	FOREST INDUSTRY	FARMER AND MISCELLANEOUS PRIVATE
POST-BLACKJACK OAK	137.5	--	0.7	--	136.8
BLACK-SCARLET OAK	486.7	--	--	.3	486.4
WHITE OAK	480.3	--	10.9	--	469.4
OAK-GUM-CYPRESS 1/	107.4	--	.6	--	106.8
ELM-ASH-COTTONWOOD	294.5	2.2	1.3	.1	290.9
MAPLE-BEECH	85.0	--	--	--	85.0
NONSTOCKED 2/	349.0	1.1	1.1	--	346.8
ALL FOREST TYPES	1,940.4	3.3	14.6	.4	1,922.1

1/ INCLUDES ONLY BOTTOMLAND OAKS -- NO GUM OR CYPRESS.
2/ SEE GLOSSARY FOR STAND-SIZE CLASSES (PAGE 3).

Table 9.--*Area of commercial forest land, by forest type and stand-age class, Prairie, Missouri, 1972*

(Thousand acres)

FOREST TYPE	ALL AGES	STAND-AGE CLASS (YEARS)											
		0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-119	120+
POST-BLACKJACK OAK	137.5	4.8	9.1	18.6	18.6	27.1	14.6	18.6	12.9	4.4	4.4	--	4.4
BLACK-SCARLET OAK	486.7	22.4	13.3	67.5	98.0	101.8	83.8	29.0	25.4	20.5	20.8	4.2	--
WHITE OAK	480.3	12.1	11.4	40.7	93.5	66.7	47.5	54.1	40.0	4.4	26.9	66.4	16.6
OAK-GUM-CYPRESS 1/	107.4	5.6	--	28.7	26.0	16.9	12.7	--	4.0	4.8	4.6	--	4.1
ELM-ASH-COTTONWOOD	294.5	11.8	8.2	33.3	74.4	85.5	44.9	4.3	16.1	4.3	7.4	4.3	--
MAPLE-BEECH	85.0	--	--	15.0	24.5	14.0	10.5	5.9	--	--	4.6	5.9	4.6
NONSTOCKED 2/	349.0	112.4	103.3	40.7	45.3	15.5	9.6	4.6	--	4.9	12.7	--	--
ALL FOREST TYPES	1,940.4	169.1	145.3	244.5	380.3	327.5	223.6	116.5	98.4	43.3	81.4	80.8	29.7

1/ INCLUDES ONLY BOTTOMLAND OAKS -- NO GUM OR CYPRESS.
2/ SEE GLOSSARY FOR STAND-SIZE CLASSES (PAGE 3).

Table 10.--*Area of commercial forest land, by forest type and site-index class, Prairie, Missouri, 1972*

(Thousand acres)

FOREST TYPE	ALL CLASSES	SITE-INDEX CLASS (HEIGHT IN FEET AT 50 YEARS)							
		20-29	30-39	40-49	50-59	60-69	70-79	80-89	90+
POST-BLACKJACK OAK	137.5	--	17.4	51.8	42.1	12.8	13.4	--	--
BLACK-SCARLET OAK	486.7	4.6	5.9	69.0	177.0	137.0	53.4	30.5	9.3
WHITE OAK	480.3	--	49.6	133.3	188.1	59.1	35.1	9.7	5.4
OAK-GUM-CYPRESS 1/	107.4	--	--	19.9	17.5	8.1	14.0	34.8	13.1
ELM-ASH-COTTONWOOD	294.5	--	--	11.9	58.0	67.1	76.8	58.1	22.6
MAPLE-BEECH	85.0	--	5.7	28.9	25.9	17.2	--	--	7.3
NONSTOCKED 2/	349.0	4.4	14.5	102.8	161.0	34.1	23.3	8.9	--
ALL FOREST TYPES	1,940.4	9.0	93.1	417.6	669.6	335.4	216.0	142.0	57.7

1/ INCLUDES ONLY BOTTOMLAND OAKS -- NO GUM OR CYPRESS.
2/ SEE GLOSSARY FOR STAND-SIZE CLASSES (PAGE 3).

Table 11.--*Area of commercial forest land, by forest type and basal-area class, Prairie, Missouri, 1972*

(Thousand acres)

FOREST TYPE	ALL CLASSES	BASAL-AREA CLASS (SQUARE FEET PER ACRE)							
		0-19	20-39	40-59	60-79	80-99	100-119	120-139	140-159
POST-BLACKJACK OAK	137.5	--	9.1	12.8	49.0	42.9	19.4	4.3	--
BLACK-SCARLET OAK	486.7	--	28.4	119.0	157.2	117.8	52.8	11.5	--
WHITE OAK	480.3	6.1	5.4	85.6	211.0	104.5	56.4	11.3	--
OAK-GUM-CYPRESS 1/	107.4	--	9.6	8.6	30.7	22.3	22.5	13.7	--
ELM-ASH-COTTONWOOD	294.5	7.8	2.6	51.4	74.0	77.6	53.5	16.6	11.0
MAPLE-BEECH	85.0	--	--	22.7	32.4	17.7	8.4	3.8	--
NONSTOCKED 2/	349.0	65.1	83.6	134.1	42.5	23.7	--	--	--
ALL FOREST TYPES	1,940.4	79.0	138.7	434.2	596.8	406.5	213.0	61.2	11.0

1/ INCLUDES ONLY BOTTOMLAND OAKS -- NO GUM OR CYPRESS.
2/ SEE GLOSSARY FOR STAND-SIZE CLASSES (PAGE 3).

Table 12.--*Area of commercial forest land, by forest type, stand-size, and site class, Prairie, Missouri, 1972*

(Thousand acres)

FOREST, TYPE AND STAND-SIZE CLASS	ALL SITE CLASSES	165 CU. FT. OR MORE	120-165 CU. FT.	85-120 CU. FT.	50-85 CU. FT.	LESS THAN 50 CU. FT.
POST-BLACKJACK OAK						
SAWTIMBER	26.5	--	--	--	--	26.5
POLETIMBER	101.4	--	--	17.1	--	84.3
SAPLING AND SEEDLING	9.6	--	--	4.8	--	4.8
ALL STANDS	137.5	--	--	21.9	--	115.6
BLACK-SCARLET OAK						
SAWTIMBER	187.4	--	--	9.2	71.3	106.9
POLETIMBER	259.0	--	--	15.7	71.3	172.0
SAPLING AND SEEDLING	40.3	--	--	4.2	9.1	27.0
ALL STANDS	486.7	--	--	29.1	151.7	305.9
WHITE OAK						
SAWTIMBER	249.2	--	--	--	57.0	192.2
POLETIMBER	200.8	--	--	5.6	22.3	172.9
SAPLING AND SEEDLING	30.3	--	--	--	6.1	24.2
ALL STANDS	480.3	--	--	5.6	85.4	389.3
OAK-GUM-CYPRESS[1/]						
SAWTIMBER	47.1	--	--	8.8	16.9	21.4
POLETIMBER	49.2	--	--	8.2	32.2	8.8
SAPLING AND SEEDLING	11.1	--	--	--	--	11.1
ALL STANDS	107.4	--	--	17.0	49.1	41.3
ELM-ASH-COTTONWOOD						
SAWTIMBER	181.5	3.9	4.3	26.5	92.7	54.1
POLETIMBER	93.2	--	--	6.8	34.9	51.5
SAPLING AND SEEDLING	19.8	--	3.9	--	3.9	12.0
ALL STANDS	294.5	3.9	8.2	33.3	131.5	117.6
MAPLE-BEECH						
SAWTIMBER	47.0	--	--	3.6	13.2	30.2
POLETIMBER	38.0	--	--	--	3.8	34.2
SAPLING AND SEEDLING	--	--	--	--	--	--
ALL STANDS	85.0	--	--	3.6	17.0	64.4
NONSTOCKED[2/]	349.0	--	--	8.6	44.6	295.8
TOTAL ALL TYPES	1,940.4	3.9	8.2	119.1	479.3	1,329.9

1/ INCLUDES ONLY BOTTOMLAND OAKS -- NO GUM OR CYPRESS.
2/ SEE GLOSSARY FOR STAND-SIZE CLASSES (PAGE 3).

Table 13.--*Area of commercial forest land, by stocking class based on selected stand components, Prairie, Missouri, 1972*

(Thousand acres)

STOCKING PERCENTAGE	STOCKING CLASSIFIED IN TERMS OF					
	ALL TREES	GROWING-STOCK TREES			ROUGH AND ROTTEN TREES	INHIBITING VEGETATION
		TOTAL	DESIRABLE	ACCEPTABLE		
150-159	4.3	--	--	--	--	--
140-149	12.6	--	--	--	--	--
130-139	55.0	--	--	--	9.5	--
120-129	154.8	--	--	--	--	--
110-119	300.7	--	--	--	9.5	--
100-109	379.1	4.6	--	4.6	32.9	--
90-99	421.3	32.5	--	28.9	68.8	--
80-89	323.1	72.1	--	57.7	166.7	--
70-79	151.4	118.5	--	107.1	264.0	--
60-69	95.7	167.6	--	166.4	330.9	--
50-59	27.3	230.9	--	216.5	345.1	--
40-49	15.1	293.4	4.3	297.4	297.0	--
30-39	--	330.9	3.6	338.5	228.7	--
20-29	--	266.3	--	296.0	148.2	4.2
10-19	--	207.5	26.1	203.4	29.3	19.2
0-10	--	216.1	1,906.4	223.9	9.8	1,917.0
TOTAL	1,940.4	1,940.4	1,940.4	1,940.4	1,940.4	1,940.4

Table 14.--*Area of commercial forest land, by stocking class of growing-stock trees and stand-size class, Prairie, Missouri, 1972*

(Thousand acres)

STOCKING PERCENTAGE	ALL STANDS	SAWTIMBER STANDS	POLETIMBER STANDS	SAPLING AND SEEDLING STANDS	NONSTOCKED AREAS 1/
100 TO 133	4.6	--	4.6	--	--
60 TO 100	390.7	180.7	186.7	23.3	--
17 TO 60	1,205.4	555.1	553.1	87.9	9.3
LESS THAN 17	339.7	--	--	--	339.7
ALL CLASSES	1,940.4	735.8	744.4	111.2	349.0

1/ SEE GLOSSARY FOR STAND-SIZE CLASSES (PAGE 3).

Table 15.--*Area of noncommercial forest land, by ownership class, Prairie, Missouri, 1972*

(Thousand acres)

OWNERSHIP CLASSES	ALL AREAS	PRODUCTIVE RESERVED AREAS	UNPRODUCTIVE AREAS
PUBLIC	46.5	46.5	--
FARMER AND MISCELLANEOUS PRIVATE	15.9	--	15.9
ALL OWNERSHIPS	62.4	46.5	15.9

Table 16.--*Area of noncommercial forest land, by forest type, Prairie, Missouri, 1972*

(Thousand acres)

FOREST TYPE	ALL AREAS	PRODUCTIVE RESERVED AREAS	UNPRODUCTIVE AREAS
EASTERN REDCEDAR	0.1	0.1	--
POST-BLACKJACK OAK	7.5	7.5	--
BLACK-SCARLET OAK	31.6	15.7	15.9
WHITE OAK	10.4	10.4	--
ELM-ASH-COTTONWOOD	12.8	12.8	--
ALL FOREST TYPES	62.4	46.5	15.9

Table 17.--*Number of all live trees on commercial forest land, by species and diameter class, Prairie, Missouri, 1972*

(Thousand trees)

SPECIES	ALL CLASSES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)													
		1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-22.9	23.0-28.9	29.0-38.9	39.0+
SOFTWOODS:															
EASTERN REDCEDAR	6322	4111	1353	286	280	161	65	36	30	--	--	--	--	--	--
TOTAL SOFTWOODS	6322	4111	1353	286	280	161	65	36	30	--	--	--	--	--	--
HARDWOODS:															
SELECT WHITE OAKS	125110	46637	29121	18988	11558	7321	4227	3327	1557	943	525	390	388	126	2
OTHER WHITE OAKS	52207	13420	19576	10697	3986	2129	1179	690	289	149	40	27	22	3	--
SELECT RED OAKS	22635	12515	2037	2198	2086	1356	731	622	403	265	100	96	175	45	6
RED OAKS	41048	12301	6895	7605	5819	3791	2067	935	785	377	212	130	117	14	--
OTHER RED OAKS	49254	20165	11498	7791	4381	2557	1167	685	359	305	175	45	91	30	5
HICKORY A	135834	73620	37512	14894	4695	2601	1196	633	256	191	117	27	84	8	--
HICKORY B	59209	34056	14528	6492	2702	972	301	106	45	--	7	--	--	--	--
HARD MAPLE	13866	8135	3898	808	469	231	85	151	16	60	10	--	--	3	--
SOFT MAPLE	17424	9083	2085	2125	785	1270	797	454	356	116	83	114	108	40	8
ASH	66755	41286	12510	7753	2802	1347	588	271	80	69	19	20	7	3	--
SYCAMORE	1940	--	98	435	378	168	222	147	139	112	75	41	105	18	2
COTTONWOOD	1362	--	--	183	309	167	153	120	126	82	53	50	75	33	11
RIVER BIRCH	6282	1385	1402	1653	812	379	214	242	76	56	22	11	20	5	5
BASSWOOD	4018	2281	--	492	427	360	206	120	38	50	16	17	8	3	--
BLACK WALNUT	24349	10322	2479	4024	3195	1664	1255	661	444	193	64	22	26	--	--
BLACK CHERRY	12532	7717	2239	1529	644	173	89	56	74	--	11	--	--	--	--
ELM	168095	114305	31938	12521	4750	2476	1025	625	154	123	80	33	62	3	--
OTHER HARDWOODS	136586	92434	19448	12402	6260	2839	1501	655	456	213	184	60	103	31	--
NONCOMMERCIAL SPECIES	70599	58867	9518	2033	101	55	25	--	--	--	--	--	--	--	--
TOTAL HARDWOODS	1009105	558529	206782	114623	56159	31856	17028	10500	5653	3304	1793	1083	1391	365	39
ALL SPECIES	1015427	562640	208135	114909	56439	32017	17093	10536	5683	3304	1793	1083	1391	365	39

Table 18.--*Number of growing-stock trees on commercial forest land, by species and diameter class, Prairie, Missouri, 1972*

(Thousand trees)

SPECIES	ALL CLASSES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)													
		1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-22.9	23.0-28.9	29.0-38.9	39.0+
SOFTWOODS:															
EASTERN REDCEDAR	2405	1809	--	286	117	133	34	16	10	--	--	--	--	--	--
TOTAL SOFTWOODS	2405	1809	--	286	117	133	34	16	10	--	--	--	--	--	--
HARDWOODS:															
SELECT WHITE OAKS	49620	10400	12367	10066	6384	3843	2337	2264	764	571	259	150	167	46	2
OTHER WHITE OAKS	23551	3480	9001	6246	2241	1296	629	405	173	65	15	--	--	--	--
SELECT RED OAKS	9116	2750	1217	1223	1529	892	537	341	265	147	64	24	94	33	--
RED OAKS	20827	4289	3823	4680	3316	2211	987	614	496	191	120	51	42	7	--
OTHER RED OAKS	15975	3345	4706	3477	2051	1023	378	361	253	198	94	32	35	22	--
HICKORY A	63785	22734	24283	10901	2709	1453	745	426	230	130	83	21	65	5	--
HICKORY B	19065	5732	6728	4247	1569	590	120	64	15	--	--	--	--	--	--
HARD MAPLE	4985	2883	1222	453	229	67	20	97	--	11	--	--	--	3	--
SOFT MAPLE	6572	3710	--	840	309	597	363	334	204	52	50	60	42	11	--
ASH	13486	4870	2506	3496	1265	625	398	187	80	31	7	14	4	3	--
SYCAMORE	1271	--	98	215	121	111	202	134	117	111	51	34	66	9	2
COTTONWOOD	1090	--	--	184	228	109	89	103	126	82	45	44	54	26	--
RIVER BIRCH	2795	--	232	1207	697	324	148	90	43	28	14	--	8	--	4
BASSWOOD	1205	606	--	--	217	133	124	83	24	18	--	--	--	--	--
BLACK WALNUT	6034	597	322	1529	1458	899	524	335	245	98	10	17	--	--	--
BLACK CHERRY	1687	--	1144	193	231	64	20	35	--	--	--	--	--	--	--
ELM	14542	6857	1786	3043	1377	833	295	192	56	51	7	7	38	--	--
OTHER HARDWOODS	12561	3746	1354	3584	2118	881	420	176	164	35	37	19	27	--	--
TOTAL HARDWOODS	268167	75999	70789	55584	28049	15951	8336	6241	3255	1819	856	473	642	165	8
ALL SPECIES	270572	77808	70789	55870	28166	16084	8370	6257	3265	1819	856	473	642	165	8

Table 19.--*Number of short-log trees on commercial forest land, by species and diameter class, Prairie, Missouri, 1972*

(Thousand trees)

SPECIES	ALL CLASSES	DIAMETER CLASS (INCHES AT BREAST HEIGHT) 11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-22.9	23.0-28.9	29.0-38.9	39.0
HARDWOODS:										
SELECT WHITE OAKS	2,304	853	535	354	210	133	115	81	23	--
OTHER WHITE OAKS	469	201	183	38	33	8	6	--	--	--
SELECT RED OAKS	305	57	120	47	48	10	--	17	4	2
RED OAKS	848	581	98	60	37	39	--	30	3	--
OTHER RED OAKS	467	236	99	38	53	6	14	19	2	--
HICKORY A	295	108	99	26	41	--	6	15	--	--
HICKORY B	76	40	19	17	--	--	--	--	--	--
HARD MAPLE	56	--	30	16	--	10	--	--	--	--
SOFT MAPLE	269	58	57	64	28	19	20	21	--	2
ASH	57	23	15	--	19	--	--	--	--	--
SYCAMORE	28	--	13	--	--	--	--	10	5	--
COTTONWOOD	28	--	16	--	--	--	--	8	4	--
RIVER BIRCH	100	--	88	--	--	--	12	--	--	--
BASSWOOD	21	--	--	14	--	7	--	--	--	--
BLACK WALNUT	529	265	134	73	40	9	--	8	--	--
BLACK CHERRY	25	--	--	25	--	--	--	--	--	--
ELM	379	201	131	8	9	20	--	10	--	--
OTHER HARDWOODS	350	162	77	45	25	22	6	8	5	--
TOTAL HARDWOODS	6,606	2,785	1,714	825	543	283	179	227	46	4

Table 20.--*Net volume of growing stock and sawtimber on commercial forest land, by species, Prairie, Missouri, 1959 and 1972*

SPECIES	GROWING STOCK 1959 1/	GROWING STOCK 1972	SAWTIMBER 1959 1/	SAWTIMBER 1972
	MILLION CUBIC FEET		MILLION BOARD FEET 2/	
SOFTWOODS:				
EASTERN REDCEDAR	--	3.5	--	14.6
TOTAL SOFTWOODS	--	3.5	--	14.6
HARDWOODS:				
SELECT WHITE OAKS	266.4	242.9	737.1	685.6
OTHER WHITE OAKS	64.2	59.9	110.6	102.8
SELECT RED OAKS	78.2	58.5	264.1	202.8
RED OAKS	114.9	101.6	271.7	264.9
OTHER RED OAKS	45.1	66.8	81.0	192.3
HICKORY A	88.2	84.3	167.6	170.6
HICKORY B	14.7	24.5	21.0	15.4
HARD MAPLE	6.2	5.3	12.3	10.0
SOFT MAPLE	43.0	44.2	127.3	149.0
ASH	36.7	32.0	85.1	66.7
SYCAMORE	17.5	31.4	77.7	154.6
COTTONWOOD	27.5	29.5	117.8	137.5
RIVER BIRCH	9.1	17.7	27.0	36.2
BASSWOOD	3.0	5.4	6.2	14.9
BLACK WALNUT	52.1	37.8	141.6	98.0
BLACK CHERRY	1.9	2.6	2.2	3.6
ELM	166.6	33.2	421.7	58.1
OTHER HARDWOODS	55.9	41.1	92.7	80.4
TOTAL HARDWOODS	1,091.2	918.7	2,764.7	2,443.4
ALL SPECIES	1,091.2	922.2	2,764.7	2,458.0

1/ FIGURES HAVE BEEN ADJUSTED FROM THOSE PUBLISHED PREVIOUSLY FOR 1959 TO CONFORM TO 1972 VOLUMES BECAUSE OF CHANGES IN SURVEY DEFINITIONS AND PROCEDURES.

2/ INTERNATIONAL 1/4-INCH RULE.

Table 21.--*Net volume on commercial forest land for Missouri's Prairie Survey Unit and for individual counties within Unit, by species and kind of material, 1972*

ALL COUNTIES

Species	Growing stock			Sawtimber			Rough and rotton trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1]			Thousand cords
Softwoods:							
Eastern redcedar	43.8	15.9	27.9	14.6	5.0	9.6	26.0
Total softwoods	43.8	15.9	27.9	14.6	5.0	9.6	26.0
Hardwoods:							
Select white oaks	3,074.5	1,246.2	1,828.3	685.6	552.5	133.1	2,110.0
Other white oaks	758.2	492.6	265.6	102.8	71.4	31.4	385.1
Select red oaks	739.6	209.3	530.3	202.8	167.1	35.7	337.9
Red oaks	1,286.2	592.0	694.2	264.9	157.6	107.3	724.2
Other red oaks	846.6	325.2	521.4	192.3	140.2	52.1	663.4
Hickory A	1,066.4	616.9	449.5	170.6	129.4	41.2	431.3
Hickory B	310.2	271.6	38.6	15.4	8.2	7.2	189.0
Hard maple	67.3	35.9	31.4	10.0	9.8	.2	91.2
Soft maple	560.3	140.5	419.8	149.0	131.5	17.5	617.7
Ash	404.8	226.5	178.3	66.7	56.5	10.2	343.2
Sycamore	398.0	36.2	361.8	154.6	142.2	12.4	107.9
Cottonwood	372.5	36.8	335.7	137.5	125.7	11.8	113.8
River birch	225.3	121.2	104.1	36.2	29.5	6.7	118.1
Basswood	68.2	20.7	47.5	14.9	6.4	8.5	96.8
Black walnut	479.6	215.7	263.9	98.0	71.1	26.9	477.4
Black cherry	31.9	22.7	9.2	3.6	2.0	1.6	107.7
Elm	420.0	252.6	167.4	58.1	46.6	11.5	830.4
Other hardwoods	520.2	302.0	218.2	80.4	59.7	20.7	1,073.1
Noncommercial species	--	--	--	--	--	--	37.0
Total hardwoods	11,629.8	5,164.6	6,465.2	2,443.4	1,907.4	536.0	8,855.2
All species	11,673.6	5,180.5	6,493.1	2,458.0	1,912.4	545.6	8,881.2

ADAIR COUNTY

Softwoods:							
Eastern redcedar	1.1	0.5	0.6	0.4	0.2	0.2	0.7
Total softwoods	1.1	.5	.6	.4	.2	.2	.7
Hardwoods:							
Select white oaks	103.9	49.7	54.2	20.1	15.1	5.0	71.9
Other white oaks	9.3	6.9	2.4	1.0	.7	.3	6.1
Select red oaks	23.7	7.9	15.8	5.8	4.2	1.6	11.5
Red oaks	32.4	17.9	14.5	5.4	2.3	3.1	20.0
Other red oaks	18.4	9.1	9.3	3.4	1.4	2.0	18.7
Hickory A	29.9	21.7	8.2	3.0	1.7	1.3	12.8
Hickory B	6.8	6.0	.8	.3	.1	.2	3.1
Hard maple	2.0	1.2	.8	.3	.3	--	2.7
Soft maple	7.1	2.0	5.1	1.8	1.5	.3	9.6
Ash	7.3	4.6	2.7	1.0	.7	.3	6.6
Sycamore	6.3	.7	5.6	2.4	2.2	.2	1.5
Cottonwood	5.8	.5	5.3	2.2	1.8	.4	2.3
River birch	4.4	2.6	1.8	.6	.3	.3	2.4
Basswood	2.2	.6	1.6	.5	.2	.3	2.4
Black walnut	9.7	5.3	4.4	1.6	1.0	.6	11.4
Black cherry	1.0	.8	.2	.1	--	.1	3.1
Elm	10.1	6.6	3.5	1.2	.9	.3	18.4
Other hardwoods	8.8	6.3	2.5	.9	.6	.3	18.2
Noncommercial species	--	--	--	--	--	--	.8
Total hardwoods	289.1	150.4	138.7	51.6	35.0	16.6	223.5
All species	290.2	150.9	139.3	52.0	35.2	16.8	224.2

1/ International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

ANDREW COUNTY

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1/]			Thousand cords
Softwoods:							
Eastern redcedar	0.3	0.1	0.2	0.1	0.1	--	0.2
Total softwoods	.3	.1	.2	.1	.1	--	.2
Hardwoods:							
Select white oaks	23.3	10.8	12.5	4.7	3.6	1.1	19.7
Other white oaks	2.1	1.5	.6	.2	.1	.1	1.6
Select red oaks	5.8	1.8	4.0	1.5	1.1	.4	3.4
Red oaks	7.4	3.9	3.5	1.3	.6	.7	5.0
Other red oaks	6.0	2.7	3.3	1.2	.7	.5	6.2
Hickory A	7.6	5.0	2.6	.9	.6	.3	3.7
Hickory B	1.7	1.4	.3	.1	--	.1	.9
Hard maple	1.4	.5	.9	.3	.3	--	2.0
Soft maple	3.5	1.0	2.5	.9	.8	.1	4.4
Ash	2.6	1.4	1.2	.5	.4	.1	2.4
Sycamore	3.0	.3	2.7	1.1	1.0	.1	.6
Cottonwood	2.7	.2	2.5	1.1	.9	.2	.9
River birch	1.4	.7	.7	.2	.1	.1	.9
Basswood	.6	.2	.4	.1	.1	--	1.0
Black walnut	3.1	1.6	1.5	.5	.3	.2	4.5
Black cherry	.3	.2	.1	--	--	--	.9
Elm	3.0	2.0	1.0	.4	.3	.1	7.5
Other hardwoods	3.6	2.3	1.3	.5	.4	.1	8.3
Noncommercial species	--	--	--	--	--	--	.2
Total hardwoods	79.1	37.5	41.6	15.5	11.3	4.2	74.1
All species	79.4	37.6	41.8	15.6	11.4	4.2	74.3

ATCHISON COUNTY

Softwoods:							
Eastern redcedar	0.2	0.1	0.1	0.1	--	0.1	0.2
Total softwoods	.2	.1	.1	.1	--	.1	.2
Hardwoods:							
Select white oaks	25.2	10.7	14.5	5.4	4.4	1.0	17.4
Other white oaks	2.2	1.5	.7	.3	.2	.1	1.4
Select red oaks	5.9	1.5	4.4	1.6	1.4	.2	2.7
Red oaks	7.0	3.2	3.8	1.4	.8	.6	4.2
Other red oaks	5.2	1.9	3.3	1.2	.8	.4	4.8
Hickory A	7.7	4.6	3.1	1.2	.8	.4	3.1
Hickory B	1.7	1.4	.3	.1	.1	--	.9
Hard maple	.5	.2	.3	.1	.1	--	.6
Soft maple	7.8	2.2	5.6	2.0	1.8	.2	9.1
Ash	3.5	2.0	1.5	.6	.5	.1	2.1
Sycamore	5.2	.5	4.7	1.9	1.8	.1	1.2
Cottonwood	5.7	.3	5.4	2.2	2.1	.1	1.2
River birch	2.2	1.0	1.2	.4	.4	--	1.2
Basswood	.8	.3	.5	.2	.1	.1	1.0
Black walnut	3.6	1.8	1.8	.7	.6	.1	3.2
Black cherry	.3	.2	.1	--	--	--	.9
Elm	4.0	2.2	1.8	.6	.5	.1	6.8
Other hardwoods	4.1	2.6	1.5	.6	.5	.1	7.1
Noncommerical species	--	--	--	--	--	--	.2
Total hardwoods	92.6	38.1	54.5	20.5	16.9	3.6	69.1
All species	92.8	38.2	54.6	20.6	16.9	3.7	69.3

1/ International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

AUDRAIN COUNTY

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1]			Thousand cords
Softwoods:							
Eastern redcedar	0.4	0.1	0.3	0.2	0.1	0.1	0.3
Total softwoods	.4	.1	.3	.2	.1	.1	.3
Hardwoods:							
Select white oaks	47.5	19.8	27.7	10.3	8.4	1.9	33.6
Other white oaks	3.4	2.2	1.2	.5	.4	.1	2.1
Select red oaks	10.6	2.7	7.9	2.9	2.4	.5	5.0
Red oaks	11.9	5.7	6.2	2.3	1.3	1.0	7.0
Other red oaks	13.1	5.0	8.1	2.9	1.8	1.1	10.1
Hickory A	14.3	8.6	5.7	2.2	1.5	.7	6.3
Hickory B	3.7	3.2	.5	.2	.1	.1	1.8
Hard maple	1.3	.7	.6	.2	.2	--	1.5
Soft maple	17.6	5.2	12.4	4.4	4.0	.4	20.3
Ash	7.9	4.5	3.4	1.4	1.2	.2	4.5
Sycamore	11.5	1.2	10.3	4.2	3.9	.3	2.7
Cottonwood	13.5	.8	12.7	5.3	4.9	.4	3.4
River birch	5.4	2.7	2.7	.9	.7	.2	3.0
Basswood	1.9	.6	1.3	.4	.1	.3	2.3
Black walnut	8.0	4.2	3.8	1.5	1.1	.4	7.6
Black cherry	.5	.4	.1	--	--	--	1.8
Elm	9.1	5.3	3.8	1.3	1.2	.1	15.9
Other hardwoods	9.4	5.9	3.5	1.3	1.0	.3	16.9
Noncommercial species	--	--	--	--	--	--	.4
Total hardwoods	190.6	78.7	111.9	42.2	34.2	8.0	146.2
All species	191.0	78.8	112.2	42.4	34.3	8.1	146.5

BARTON COUNTY

Softwoods:							
Eastern redcedar	0.4	0.1	0.3	0.1	--	0.1	0.5
Total softwoods	.4	.1	.3	.1	--	.1	.5
Hardwoods:							
Select white oaks	18.7	5.2	13.5	5.3	4.5	.8	13.5
Other white oaks	13.5	8.7	4.8	1.8	1.2	.6	6.3
Select red oaks	5.8	1.9	3.9	1.7	1.6	.1	3.0
Red oaks	17.7	6.3	11.4	4.4	3.3	1.1	10.3
Other red oaks	14.5	3.7	10.8	4.1	3.9	.2	7.2
Hickory A	13.9	5.2	8.7	3.4	3.1	.3	4.3
Hickory B	4.8	4.2	.6	.3	.2	.1	3.5
Soft maple	7.8	1.1	6.7	2.4	2.0	.4	4.8
Ash	8.2	4.2	4.0	1.4	1.3	.1	8.1
Sycamore	4.4	.4	4.0	2.0	1.7	.3	1.7
Cottonwood	2.8	1.0	1.8	.7	.7	--	1.2
River birch	3.8	2.3	1.5	.5	.5	--	1.8
Basswood	--	--	--	--	--	--	.8
Black walnut	7.6	2.6	5.0	1.9	1.5	.4	8.4
Black cherry	.2	.1	.1	--	--	--	1.4
Elm	4.6	2.5	2.1	.7	.5	.2	11.8
Other hardwoods	9.9	4.8	5.1	1.8	1.3	.5	23.9
Noncommercial species	--	--	--	--	--	--	.8
Total hardwoods	138.2	54.2	84.0	32.4	27.3	5.1	112.8
All species	138.6	54.3	84.3	32.5	27.3	5.2	113.3

[1] International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

BATES COUNTY

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1]			Thousand cords
Softwoods:							
Eastern redcedar	0.9	0.2	0.7	0.3	--	0.3	1.0
Total softwoods	.9	.2	.7	.3	--	.3	1.0
Hardwoods:							
Select white oaks	35.9	9.0	26.9	10.6	9.0	1.6	22.6
Other white oaks	28.8	18.9	9.9	3.8	2.4	1.4	13.5
Select red oaks	11.9	3.8	8.1	3.5	3.3	.2	4.9
Red oaks	35.7	13.4	22.3	8.5	6.1	2.4	19.5
Other red oaks	31.5	8.2	23.3	8.9	8.4	.5	14.5
Hickory A	28.7	11.0	17.7	6.9	6.1	.8	8.8
Hickory B	10.1	8.7	1.4	.6	.4	.2	6.9
Soft maple	18.0	2.4	15.6	5.6	4.7	.9	10.9
Ash	17.5	8.9	8.6	3.1	2.8	.3	17.3
Sycamore	9.8	.8	9.0	4.3	3.7	.6	3.4
Cottonwood	6.4	2.3	4.1	1.5	1.5	--	2.7
River birch	8.7	5.3	3.4	1.2	1.2	--	4.1
Basswood	--	--	--	--	--	--	1.6
Black walnut	14.4	4.7	9.7	3.5	3.0	.5	15.6
Black cherry	.4	.2	.2	.1	.1	--	2.8
Elm	9.7	5.5	4.2	1.5	1.2	.3	23.4
Other hardwoods	20.3	9.4	10.9	3.9	2.8	1.1	46.2
Noncommercial species	--	--	--	--	--	--	1.6
Total hardwoods	287.8	112.5	175.3	67.5	56.7	10.8	220.3
All species	288.7	112.7	176.0	67.8	56.7	11.1	221.3

BUCHANAN COUNTY

Softwoods:							
Eastern redcedar	0.3	0.1	0.2	0.1	0.1	--	0.1
Total softwoods	.3	.1	.2	.1	.1	--	.1
Hardwoods:							
Select white oaks	26.0	11.8	14.2	5.4	4.2	1.2	21.6
Other white oaks	1.5	.9	.6	.2	.2	--	1.1
Select red oaks	6.5	1.9	4.6	1.7	1.2	.5	3.2
Red oaks	6.9	3.3	3.6	1.4	.7	.7	4.0
Other red oaks	8.3	3.7	4.6	1.7	.9	.8	6.8
Hickory A	8.4	4.9	3.5	1.3	.8	.5	4.1
Hickory B	2.3	2.1	.2	.1	.1	--	1.1
Hard maple	1.9	1.2	.7	.2	.2	--	2.6
Soft maple	9.1	2.7	6.4	2.3	2.0	.3	11.1
Ash	4.7	2.5	2.2	.9	.6	.3	3.2
Sycamore	6.3	.6	5.7	2.3	2.1	.2	1.5
Cottonwood	6.3	.4	5.9	2.4	2.2	.2	2.2
River birch	3.4	1.8	1.6	.5	.4	.1	2.0
Basswood	1.5	.5	1.0	.3	.1	.2	1.8
Black walnut	5.9	3.0	2.9	1.1	.6	.5	6.0
Black cherry	.3	.2	.1	--	--	--	1.3
Elm	6.8	4.6	2.2	.8	.6	.2	11.8
Other hardwoods	6.0	3.9	2.1	.8	.6	.2	11.5
Noncommercial species	--	--	--	--	--	--	.3
Total hardwoods	112.1	50.0	62.1	23.4	17.5	5.9	97.2
All species	112.4	50.1	62.3	23.5	17.6	5.9	97.3

[1] International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

CALDWELL COUNTY

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1/]			Thousand cords
Softwoods:							
Eastern redcedar	0.3	0.2	0.1	0.1	--	0.1	0.1
Total softwoods	.3	.2	.1	.1	--	.1	.1
Hardwoods:							
Select white oaks	26.1	10.2	15.9	5.9	5.0	.9	19.0
Other white oaks	1.5	.9	.6	.2	.2	--	1.3
Select red oaks	6.1	1.3	4.8	1.8	1.4	.4	2.9
Red oaks	6.5	2.9	3.6	1.3	.7	.6	3.8
Other red oaks	8.1	3.5	4.6	1.7	1.0	.7	5.9
Hickory A	8.4	4.7	3.7	1.4	.9	.5	4.0
Hickory B	2.2	1.9	.3	.1	.1	--	1.3
Hard maple	1.0	.4	.6	.2	.2	--	1.7
Soft maple	10.3	3.0	7.3	2.6	2.3	.3	12.3
Ash	4.7	2.6	2.1	.8	.7	.1	3.0
Sycamore	7.0	.7	6.3	2.6	2.4	.2	1.7
Cottonwood	7.1	.4	6.7	2.8	2.6	.2	1.9
River birch	3.5	1.8	1.7	.6	.5	.1	2.0
Basswood	1.1	.4	.7	.2	.1	.1	1.4
Black walnut	4.7	2.3	2.4	.9	.7	.2	4.1
Black cherry	.3	.2	.1	--	--	--	1.1
Elm	5.2	3.0	2.2	.8	.7	.1	10.1
Other hardwoods	5.8	3.5	2.3	.9	.7	.2	10.5
Noncommercial species	--	--	--	--	--	--	.2
Total hardwoods	109.6	43.7	65.9	24.8	20.2	4.6	88.2
All species	109.9	43.9	66.0	24.9	20.2	4.7	88.3

CARROLL COUNTY

Softwoods:							
Eastern redcedar	0.5	0.2	0.3	0.2	0.1	0.1	0.3
Total softwoods	.5	.2	.3	.2	.1	.1	.3
Hardwoods:							
Select white oaks	47.9	19.7	28.2	10.5	8.7	1.8	33.2
Other white oaks	3.6	2.3	1.3	.5	.4	.1	2.4
Select red oaks	11.1	2.8	8.3	3.1	2.6	.5	5.0
Red oaks	12.8	5.9	6.9	2.6	1.6	1.0	7.5
Other red oaks	11.7	4.0	7.7	2.7	1.8	.9	9.5
Hickory A	14.5	8.7	5.8	2.2	1.5	.7	6.0
Hickory B	3.4	2.8	.6	.2	.1	.1	1.7
Hard maple	1.2	.6	.6	.2	.2	--	1.3
Soft maple	15.8	4.6	11.2	4.0	3.7	.3	18.3
Ash	7.2	4.1	3.1	1.2	1.1	.1	4.1
Sycamore	10.5	1.1	9.4	3.9	3.7	.2	2.4
Cottonwood	12.2	.6	11.6	4.8	4.5	.3	2.5
River birch	4.5	2.2	2.3	.8	.7	.1	2.6
Basswood	1.6	.5	1.1	.3	.1	.2	2.1
Black walnut	7.1	3.5	3.6	1.4	1.1	.3	6.4
Black cherry	.5	.4	.1	.1	--	.1	1.8
Elm	8.1	4.5	3.6	1.3	1.1	.2	13.5
Other hardwoods	8.1	4.9	3.2	1.2	1.0	.2	14.0
Noncommercial species	--	--	--	--	--	--	.4
Total hardwoods	181.8	73.2	108.6	41.0	33.9	7.1	134.7
All species	182.3	73.4	108.9	41.2	34.0	7.2	135.0

1/ International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

CASS COUNTY

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1/]			Thousand cords
Softwoods:							
Eastern redcedar	0.8	0.2	0.6	0.3	--	0.3	0.5
Total softwoods	.8	.2	.6	.3	--	.3	.5
Hardwoods:							
Select white oaks	31.5	10.3	21.2	8.3	6.7	1.6	24.4
Other white oaks	34.0	21.4	12.6	4.8	3.4	1.4	14.3
Select red oaks	8.2	2.4	5.8	2.4	2.3	.1	5.2
Red oaks	35.7	14.7	21.0	8.1	5.6	2.5	20.3
Other red oaks	15.9	5.1	10.8	4.1	3.9	.2	10.3
Hickory A	17.6	7.3	10.3	4.0	3.7	.3	6.4
Hickory B	7.1	6.4	.7	.3	.2	.1	5.5
Soft maple	3.3	.5	2.8	1.0	.8	.2	2.3
Ash	6.1	3.6	2.5	.9	.8	.1	6.5
Sycamore	2.2	.2	2.0	1.0	.9	.1	1.8
Cottonwood	1.3	.4	.9	.3	.3	--	.5
River birch	1.8	1.0	.8	.3	.3	--	.7
Basswood	--	--	--	--	--	--	.8
Black walnut	10.0	3.6	6.4	2.4	1.8	.6	7.8
Black cherry	.4	.2	.2	.1	.1	--	1.2
Elm	4.4	2.6	1.8	.6	.4	.2	11.5
Other hardwoods	10.7	5.2	5.5	2.0	1.4	.6	22.6
Noncommercial species	--	--	--	--	--	--	1.1
Total hardwoods	190.2	84.9	105.3	40.6	32.6	8.0	143.2
All species	191.0	85.1	105.9	40.9	32.6	8.3	143.7

CHARITON COUNTY

Softwoods:							
Eastern redcedar	0.6	0.3	0.3	0.2	0.1	0.1	0.3
Total softwoods	.6	.3	.3	.2	.1	.1	.3
Hardwoods:							
Select white oaks	68.9	26.4	42.5	15.8	13.3	2.5	47.5
Other white oaks	4.2	2.4	1.8	.7	.6	.1	2.9
Select red oaks	15.5	3.5	12.0	4.5	3.8	.7	6.6
Red oaks	16.1	7.0	9.1	3.5	2.2	1.3	8.7
Other red oaks	19.5	7.0	12.5	4.5	2.9	1.6	14.3
Hickory A	20.2	11.4	8.8	3.3	2.4	.9	9.1
Hickory B	5.4	4.6	.8	.3	.2	.1	2.7
Hard maple	2.1	1.3	.8	.2	.2	--	2.5
Soft maple	27.6	7.9	19.7	7.0	6.4	.6	32.3
Ash	12.1	6.7	5.4	2.1	1.8	.3	6.5
Sycamore	18.3	1.8	16.5	6.8	6.3	.5	4.3
Cottonwood	20.6	1.2	19.4	8.0	7.5	.5	5.3
River birch	8.3	4.0	4.3	1.5	1.2	.3	4.6
Basswood	3.0	1.0	2.0	.6	.2	.4	3.5
Black walnut	12.3	6.0	6.3	2.4	1.8	.6	10.9
Black cherry	.7	.5	.2	.1	--	.1	2.5
Elm	14.3	8.2	6.1	2.1	1.9	.2	23.4
Other hardwoods	13.8	8.4	5.4	2.1	1.7	.4	24.2
Noncommercial species	--	--	--	--	--	--	.6
Total hardwoods	282.9	109.3	173.6	65.5	54.4	11.1	212.4
All species	283.5	109.6	173.9	65.7	54.5	11.2	212.7

[1/] International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

CLARK COUNTY

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1]			Thousand cords
Softwoods:							
Eastern redcedar	1.3	0.6	0.7	0.4	0.2	0.2	0.5
Total softwoods	1.3	.6	.7	.4	.2	.2	.5
Hardwoods:							
Select white oaks	110.5	44.8	65.7	24.3	20.2	4.1	75.5
Other white oaks	8.6	5.3	3.3	1.3	1.1	.2	5.9
Select red oaks	25.9	6.6	19.3	7.2	6.0	1.2	11.3
Red oaks	29.6	13.7	15.9	6.1	3.7	2.4	17.3
Other red oaks	20.6	8.4	12.2	4.4	2.6	1.8	19.6
Hickory A	30.0	18.7	11.3	4.2	3.1	1.1	13.1
Hickory B	6.7	5.8	.9	.4	.2	.2	3.5
Hard maple	2.5	1.3	1.2	.4	.4	--	3.2
Soft maple	15.2	4.0	11.2	3.9	3.5	.4	19.9
Ash	9.8	5.5	4.3	1.6	1.3	.3	7.3
Sycamore	12.7	1.0	11.7	4.9	4.6	.3	2.8
Cottonwood	9.9	.7	9.2	3.8	3.4	.4	3.3
River birch	6.1	3.0	3.1	1.1	.9	.2	3.2
Basswood	2.5	.7	1.8	.6	.3	.3	2.9
Black walnut	12.0	5.8	6.2	2.3	1.6	.7	12.5
Black cherry	1.0	.7	.3	.1	--	.1	3.4
Elm	12.4	7.4	5.0	1.7	1.4	.3	22.7
Other hardwoods	11.6	7.5	4.1	1.5	1.2	.3	22.3
Noncommercial species	--	--	--	--	--	--	.7
Total hardwoods	327.6	140.9	186.7	69.8	55.5	14.3	250.4
All species	328.9	141.5	187.4	70.2	55.7	14.5	250.9

CLAY COUNTY

Softwoods:							
Eastern redcedar	0.4	0.2	0.2	0.1	0.1	--	0.2
Total softwoods	.4	.2	.2	.1	.1	--	.2
Hardwoods:							
Select white oaks	32.2	14.7	17.5	6.5	5.0	1.5	24.0
Other white oaks	2.3	1.6	.7	.3	.2	.1	1.7
Select red oaks	7.8	2.3	5.5	2.1	1.5	.6	3.8
Red oaks	9.0	4.5	4.5	1.7	.8	.9	5.3
Other red oaks	10.2	4.7	5.5	2.0	1.0	1.0	8.0
Hickory A	10.3	6.4	3.9	1.5	1.0	.5	4.9
Hickory B	3.0	2.6	.4	.1	--	.1	1.4
Hard maple	1.4	.9	.5	.1	.1	--	1.9
Soft maple	10.6	3.1	7.5	2.7	2.4	.3	13.0
Ash	5.4	3.0	2.4	.9	.7	.2	3.5
Sycamore	7.2	.7	6.5	2.7	2.4	.3	1.8
Cottonwood	7.5	.6	6.9	2.9	2.6	.3	2.5
River birch	4.2	2.3	1.9	.7	.5	.2	2.5
Basswood	1.6	.5	1.1	.3	.1	.2	1.7
Black walnut	6.2	3.3	2.9	1.1	.7	.4	5.9
Black cherry	.4	.3	.1	--	--	--	1.4
Elm	7.1	4.6	2.5	.9	.7	.2	12.2
Other hardwoods	6.8	4.4	2.4	.9	.7	.2	12.7
Noncommercial species	--	--	--	--	--	--	.3
Total hardwoods	133.2	60.5	72.7	27.4	20.4	7.0	108.5
All species	133.6	60.7	72.9	27.5	20.5	7.0	108.7

1/ International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1]			Thousand cords
CLINTON COUNTY							
Softwoods:							
Eastern redcedar	0.3	0.1	0.2	0.1	--	0.1	0.2
Total softwoods	.3	.1	.2	.1	--	.1	.2
Hardwoods:							
Select white oaks	24.7	10.2	14.5	5.4	4.4	1.0	17.7
Other white oaks	1.4	.9	.5	.2	.2	--	1.1
Select red oaks	5.7	1.5	4.2	1.6	1.2	.4	2.6
Red oaks	6.4	3.3	3.1	1.2	.6	.6	3.8
Other red oaks	10.2	4.3	5.9	2.1	1.2	.9	6.6
Hickory A	8.3	5.1	3.2	1.2	.8	.4	3.8
Hickory B	2.6	2.3	.3	.1	.1	--	1.1
Hard maple	1.0	.6	.4	.1	.1	--	1.1
Soft maple	13.7	4.1	9.6	3.4	3.1	.3	15.2
Ash	5.7	3.2	2.5	1.0	.8	.2	2.8
Sycamore	8.4	.9	7.5	3.1	2.8	.3	2.0
Cottonwood	11.5	.6	10.9	4.5	4.3	.2	2.7
River birch	4.3	2.3	2.0	.7	.5	.2	2.4
Basswood	1.4	.5	.9	.3	.1	.2	1.7
Black walnut	5.4	2.8	2.6	1.0	.7	.3	5.0
Black cherry	.3	.2	.1	--	--	--	1.2
Elm	6.8	4.0	2.8	1.0	.9	.1	11.0
Other hardwoods	6.6	4.0	2.6	1.0	.8	.2	12.1
Noncommercial species	--	--	--	--	--	--	.3
Total hardwoods	124.4	50.8	73.6	27.9	22.6	5.3	94.2
All species	124.7	50.9	73.8	28.0	22.6	5.4	94.4
COOPER COUNTY							
Softwoods:							
Eastern redcedar	1.6	0.5	1.1	0.4	--	0.4	0.8
Total softwoods	1.6	.5	1.1	.4	--	.4	.8
Hardwoods:							
Select white oaks	46.1	14.1	32.0	12.6	9.1	3.5	29.9
Other white oaks	59.6	38.9	20.7	7.9	5.0	2.9	24.7
Select red oaks	12.2	4.0	8.2	3.5	3.2	.3	5.5
Red oaks	55.7	25.9	29.8	11.5	6.7	4.8	27.2
Other red oaks	20.4	7.6	12.8	4.9	4.6	.3	14.9
Hickory A	27.6	13.6	14.0	5.4	4.4	1.0	9.7
Hickory B	12.1	10.8	1.3	.5	.2	.3	8.3
Soft maple	5.2	.6	4.6	1.7	1.3	.4	3.4
Ash	8.0	4.5	3.5	1.3	1.2	.1	9.5
Sycamore	3.3	.2	3.1	1.5	1.4	.1	2.1
Cottonwood	2.0	.6	1.4	.5	.5	--	.8
River birch	2.6	1.4	1.2	.4	.4	--	1.2
Basswood	--	--	--	--	--	--	.9
Black walnut	13.1	4.7	8.4	3.1	2.3	.8	10.2
Black cherry	.8	.5	.3	.1	.1	--	1.4
Elm	5.9	3.5	2.4	.8	.6	.2	14.2
Other hardwoods	13.2	6.3	6.9	2.5	1.8	.7	30.4
Noncommercial species	--	--	--	--	--	--	1.3
Total hardwoods	287.8	137.2	150.6	58.2	42.8	15.4	195.6
All species	289.4	137.7	151.7	58.6	42.8	15.8	196.4

[1] International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

DADE COUNTY

Species	Growing stock: Total	Growing stock: Poletimber trees	Growing stock: Sawtimber trees	Sawtimber: Total	Sawtimber: In sawtimber stands	Sawtimber: Other stands	Rough and rotten trees
	Thousand cords			Million board feet[1/]			Thousand cords
Softwoods:							
Eastern redcedar	1.4	0.3	1.1	0.4	--	0.4	1.0
Total softwoods	1.4	.3	1.1	.4	--	.4	1.0
Hardwoods:							
Select white oaks	32.6	11.3	21.3	8.4	5.8	2.6	25.5
Other white oaks	41.2	27.4	13.8	5.3	3.3	2.0	19.2
Select red oaks	8.4	3.0	5.4	2.3	2.1	.2	4.3
Red oaks	39.0	18.4	20.6	7.9	4.6	3.3	20.0
Other red oaks	15.5	6.7	8.8	3.3	3.0	.3	12.5
Hickory A	20.4	10.8	9.6	3.7	3.0	.7	6.4
Hickory B	9.7	8.8	.9	.4	.2	.2	7.6
Soft maple	3.7	.5	3.2	1.1	.8	.3	2.8
Ash	6.1	3.7	2.4	.8	.7	.1	6.9
Sycamore	2.2	.2	2.0	1.0	.8	.2	1.4
Cottonwood	1.2	.4	.8	.3	.3	--	.5
River birch	1.8	1.0	.8	.3	.3	--	.7
Basswood	--	--	--	--	--	--	.7
Black walnut	10.1	3.9	6.2	2.3	1.6	.7	9.1
Black cherry	.5	.3	.2	.1	.1	--	1.2
Elm	4.6	2.9	1.7	.6	.4	.2	12.2
Other hardwoods	10.1	5.3	4.8	1.7	1.1	.6	25.1
Noncommercial species	--	--	--	--	--	--	1.1
Total hardwoods	207.1	104.6	102.5	39.5	28.1	11.4	157.2
All species	208.5	104.9	103.6	39.9	28.1	11.8	158.2

DAVIESS COUNTY

Softwoods:							
Eastern redcedar	0.8	0.3	0.5	0.3	0.2	0.1	0.4
Total softwoods	.8	.3	.5	.3	.2	.1	.4
Hardwoods:							
Select white oaks	68.8	30.3	38.5	14.2	11.4	2.8	45.6
Other white oaks	5.7	3.8	1.9	.8	.6	.2	4.0
Select red oaks	16.4	4.9	11.5	4.3	3.4	.9	7.1
Red oaks	20.4	10.2	10.2	3.8	2.0	1.8	12.2
Other red oaks	12.1	5.3	6.8	2.5	1.4	1.1	11.4
Hickory A	19.0	12.9	6.1	2.2	1.4	.8	8.2
Hickory B	4.3	3.7	.6	.2	.1	.1	2.2
Hard maple	1.8	1.1	.7	.2	.2	--	2.3
Soft maple	6.5	1.8	4.7	1.6	1.5	.1	8.5
Ash	5.2	3.0	2.2	.8	.6	.2	4.3
Sycamore	5.7	.5	5.2	2.2	2.1	.1	1.2
Cottonwood	5.0	.4	4.6	1.9	1.6	.3	1.7
River birch	2.9	1.5	1.4	.5	.4	.1	1.6
Basswood	1.5	.4	1.1	.4	.2	.2	1.7
Black walnut	7.0	3.5	3.5	1.3	.8	.5	7.5
Black cherry	.6	.5	.1	.1	.1	--	2.1
Elm	7.5	4.7	2.8	1.0	.7	.3	13.2
Other hardwoods	6.5	4.3	2.2	.8	.6	.2	12.9
Noncommercial species	--	--	--	--	--	--	.5
Total hardwoods	196.9	92.8	104.1	38.8	29.1	9.7	148.2
All species	197.7	93.1	104.6	39.1	29.3	9.8	148.6

[1/] International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

DEKALB COUNTY

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1/]			Thousand cords
Softwoods:							
Eastern redcedar	0.3	0.1	0.2	0.1	0.1	--	0.1
Total softwoods	.3	.1	.2	.1	.1	--	.1
Hardwoods:							
Select white oaks	22.6	8.8	13.8	5.1	4.3	.8	16.5
Other white oaks	1.5	.9	.6	.3	.3	--	1.5
Select red oaks	5.4	1.3	4.1	1.5	1.2	.3	2.5
Red oaks	5.8	2.6	3.2	1.2	.7	.5	3.6
Other red oaks	5.9	2.5	3.4	1.2	.7	.5	5.6
Hickory A	6.8	3.9	2.9	1.1	.8	.3	3.3
Hickory B	1.6	1.4	.2	.1	.1	--	.9
Hard maple	1.0	.4	.6	.2	.2	--	1.4
Soft maple	5.0	1.5	3.5	1.3	1.2	.1	6.4
Ash	2.7	1.5	1.2	.5	.4	.1	2.1
Sycamore	3.8	.3	3.5	1.4	1.3	.1	.8
Cottonwood	3.8	.2	3.6	1.5	1.4	.1	1.1
River birch	1.8	.9	.9	.3	.2	.1	1.1
Basswood	.7	.2	.5	.1	--	.1	.9
Black walnut	3.0	1.4	1.6	.6	.4	.2	3.2
Black cherry	.3	.2	.1	--	--	--	.9
Elm	3.2	1.9	1.3	.5	.4	.1	6.8
Other hardwoods	3.7	2.2	1.5	.6	.5	.1	7.3
Noncommercial species	--	--	--	--	--	--	.2
Total hardwoods	78.6	32.1	46.5	17.5	14.1	3.4	66.1
All species	78.9	32.2	46.7	17.6	14.2	3.4	66.2

GENTRY COUNTY

Softwoods:							
Eastern redcedar	0.5	0.2	0.3	0.2	0.1	0.1	0.3
Total softwoods	.5	.2	.3	.2	.1	.1	.3
Hardwoods:							
Select white oaks	42.0	19.7	22.3	8.3	6.4	1.9	31.9
Other white oaks	3.5	2.4	1.1	.4	.3	.1	2.4
Select red oaks	10.1	3.0	7.1	2.6	1.9	.7	5.4
Red oaks	13.2	6.9	6.3	2.4	1.1	1.3	8.8
Other red oaks	10.1	4.9	5.2	1.8	.9	.9	9.8
Hickory A	13.2	8.8	4.4	1.6	1.0	.6	5.8
Hickory B	3.1	2.7	.4	.2	.1	.1	1.6
Hard maple	1.9	.7	1.2	.4	.4	--	2.6
Soft maple	6.0	1.7	4.3	1.5	1.3	.2	7.8
Ash	4.3	2.4	1.9	.7	.6	.1	4.0
Sycamore	4.9	.5	4.4	1.9	1.7	.2	1.1
Cottonwood	4.3	.3	4.0	1.6	1.4	.2	1.6
River birch	2.8	1.6	1.2	.4	.3	.1	1.6
Basswood	1.2	.4	.8	.3	.1	.2	1.6
Black walnut	5.3	2.8	2.5	.9	.6	.3	6.7
Black cherry	.5	.4	.1	--	--	--	1.4
Elm	5.2	3.4	1.8	.7	.5	.2	11.3
Other hardwoods	6.1	4.0	2.1	.8	.6	.2	12.5
Noncommercial species	--	--	--	--	--	--	.3
Total hardwoods	137.7	66.6	71.1	26.5	19.2	7.3	118.2
All species	138.2	66.8	71.4	26.7	19.3	7.4	118.5

1/ International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

GREENE COUNTY

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1/]			Thousand cords
Softwoods:							
Eastern redcedar	2.1	0.6	1.5	0.7	--	0.7	1.3
Total softwoods	2.1	.6	1.5	.7	--	.7	1.3
Hardwoods:							
Select white oaks	51.5	17.4	34.1	13.4	9.2	4.2	38.4
Other white oaks	67.6	44.8	22.8	8.7	5.3	3.4	30.2
Select red oaks	12.9	4.5	8.4	3.5	3.2	.3	6.4
Red oaks	62.7	29.8	32.9	12.7	7.1	5.6	31.3
Other red oaks	22.2	9.7	12.5	4.8	4.3	.5	18.5
Hickory A	31.6	16.9	14.7	5.7	4.5	1.2	10.2
Hickory B	14.7	13.2	1.5	.6	.2	.4	11.1
Soft maple	4.5	.6	3.9	1.4	1.0	.4	3.3
Ash	8.0	5.0	3.0	1.1	1.0	.1	9.4
Sycamore	2.6	.2	2.4	1.1	1.0	.1	2.1
Cottonwood	1.5	.5	1.0	.4	.4	--	.6
River birch	2.1	1.1	1.0	.3	.3	--	.8
Basswood	--	--	--	--	--	--	1.0
Black walnut	15.2	5.9	9.3	3.4	2.3	1.1	13.3
Black cherry	.9	.6	.3	.1	.1	--	1.6
Elm	6.6	4.2	2.4	.8	.6	.2	16.9
Other hardwoods	14.3	7.4	6.9	2.5	1.7	.8	36.1
Noncommercial species	--	--	--	--	--	--	1.5
Total hardwoods	318.9	161.8	157.1	60.5	42.2	18.3	232.7
All species	321.0	162.4	158.6	61.2	42.2	19.0	234.0

GRUNDY COUNTY

Softwoods:							
Eastern redcedar	0.5	0.2	0.3	0.2	0.1	0.1	0.2
Total softwoods	.5	.2	.3	.2	.1	.1	.2
Hardwoods:							
Select white oaks	44.8	17.4	27.4	10.2	8.7	1.5	31.2
Other white oaks	3.4	2.1	1.3	.5	.4	.1	2.4
Select red oaks	10.6	2.4	8.2	3.0	2.5	.5	4.7
Red oaks	11.4	4.9	6.5	2.5	1.5	1.0	6.5
Other red oaks	9.4	3.6	5.8	2.1	1.4	.7	8.1
Hickory A	12.4	7.0	5.4	2.0	1.4	.6	6.1
Hickory B	2.8	2.4	.4	.2	.1	.1	2.1
Hard maple	2.2	.8	1.4	.5	.4	.1	3.8
Soft maple	9.1	2.5	6.6	2.3	2.1	.2	11.3
Ash	5.2	2.7	2.5	1.0	.9	.1	4.4
Sycamore	7.2	.6	6.6	2.7	2.6	.1	1.5
Cottonwood	6.6	.4	6.2	2.5	2.3	.2	2.0
River birch	3.0	1.5	1.5	.5	.4	.1	1.8
Basswood	1.2	.4	.8	.3	.1	.2	1.9
Black walnut	6.1	2.8	3.3	1.2	.8	.4	6.0
Black cherry	.4	.3	.1	.1	--	.1	1.4
Elm	6.0	3.5	2.5	.8	.7	.1	13.9
Other hardwoods	7.0	4.3	2.7	1.0	.8	.2	13.7
Noncommercial species	--	--	--	--	--	--	.3
Total hardwoods	148.8	59.6	89.2	33.4	27.1	6.3	123.1
All species	149.3	59.8	89.5	33.6	27.2	6.4	123.3

[1/] International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

HARRISON COUNTY

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1/]			Thousand cords
Softwoods:							
Eastern redcedar	1.0	0.4	0.6	0.4	0.2	0.2	0.5
Total softwoods	1.0	.4	.6	.4	.2	.2	.5
Hardwoods:							
Select white oaks	90.0	38.4	51.6	19.1	15.5	3.6	59.7
Other white oaks	7.1	4.7	2.4	1.0	.8	.2	4.9
Select red oaks	21.0	5.7	15.3	5.7	4.5	1.2	9.1
Red oaks	25.2	12.4	12.8	4.9	2.6	2.3	14.9
Other red oaks	18.9	8.3	10.6	3.8	2.1	1.7	16.2
Hickory A	25.5	16.6	8.9	3.3	2.2	1.1	11.0
Hickory B	6.1	5.3	.8	.3	.2	.1	3.0
Hard maple	2.1	1.1	1.0	.3	.3	--	2.6
Soft maple	15.0	4.2	10.8	3.8	3.5	.3	18.3
Ash	8.9	5.1	3.8	1.4	1.2	.2	6.2
Sycamore	11.2	1.1	10.1	4.2	4.0	.2	2.6
Cottonwood	11.6	.7	10.9	4.5	4.1	.4	3.1
River birch	5.8	3.1	2.7	1.0	.7	.3	3.1
Basswood	2.2	.7	1.5	.5	.2	.3	2.6
Black walnut	10.1	5.0	5.1	1.9	1.4	.5	10.2
Black cherry	.9	.7	.2	.1	.1	--	2.8
Elm	11.1	6.6	4.5	1.5	1.2	.3	19.5
Other hardwoods	10.6	6.8	3.8	1.4	1.1	.3	19.9
Noncommercial species	--	--	--	--	--	--	.7
Total hardwoods	283.3	126.5	156.8	58.7	45.7	13.0	210.4
All species	284.3	126.9	157.4	59.1	45.9	13.2	210.9

HENRY COUNTY

Softwoods:							
Eastern redcedar	0.8	0.2	0.6	0.2	--	0.2	0.7
Total softwoods	.8	.2	.6	.2	--	.2	.7
Hardwoods:							
Select white oaks	28.3	7.9	20.4	8.0	6.5	1.5	19.5
Other white oaks	26.9	17.4	9.5	3.6	2.4	1.2	12.1
Select red oaks	8.9	2.9	6.0	2.6	2.4	.2	3.9
Red oaks	30.2	12.0	18.2	7.0	4.7	2.3	16.3
Other red oaks	22.6	6.5	16.1	6.1	5.8	.3	11.7
Hickory A	20.7	8.4	12.3	4.8	4.3	.5	6.8
Hickory B	8.3	7.3	1.0	.4	.2	.2	5.7
Soft maple	11.7	1.8	9.9	3.5	2.8	.7	7.8
Ash	12.7	6.9	5.8	2.1	1.8	.3	12.8
Sycamore	6.6	.7	5.9	2.9	2.4	.5	2.4
Cottonwood	3.9	1.4	2.5	.9	.9	--	1.7
River birch	5.6	3.5	2.1	.8	.8	--	2.5
Basswood	--	--	--	--	--	--	1.3
Black walnut	11.1	3.9	7.2	2.7	2.2	.5	11.1
Black cherry	.4	.2	.2	.1	.1	--	2.2
Elm	7.3	4.2	3.1	1.0	.8	.2	17.9
Other hardwoods	15.4	7.5	7.9	2.8	1.9	.9	34.2
Noncommercial species	--	--	--	--	--	--	1.3
Total hardwoods	220.6	92.5	128.1	49.3	40.0	9.3	171.2
All species	221.4	92.7	128.7	49.5	40.0	9.5	171.9

[1/] International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

HOLT COUNTY

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1/]			Thousand cords
Softwoods:							
Eastern redcedar	0.3	0.1	0.2	0.1	--	0.1	0.2
Total softwoods	.3	.1	.2	.1	--	.1	.2
Hardwoods:							
Select white oaks	25.3	11.5	13.8	5.1	3.9	1.2	19.7
Other white oaks	2.0	1.5	.5	.2	.1	.1	1.3
Select red oaks	6.0	2.0	4.0	1.5	1.1	.4	3.2
Red oaks	7.3	3.9	3.4	1.3	.5	.8	4.4
Other red oaks	7.6	3.5	4.1	1.5	.8	.7	6.6
Hickory A	8.2	5.2	3.0	1.1	.7	.4	4.2
Hickory B	2.2	2.0	.2	.1	.1	--	1.0
Hard maple	1.0	.6	.4	.2	.2	--	1.3
Soft maple	7.1	2.1	5.0	1.8	1.6	.2	8.7
Ash	4.0	2.0	2.0	.7	.5	.2	2.6
Sycamore	5.1	.5	4.6	1.9	1.6	.3	1.2
Cottonwood	5.4	.4	5.0	2.0	1.7	.3	2.2
River birch	2.8	1.5	1.3	.4	.3	.1	1.6
Basswood	1.0	.3	.7	.2	.1	.1	1.2
Black walnut	4.9	2.9	2.0	.8	.5	.3	6.2
Black cherry	.3	.2	.1	--	--	--	1.1
Elm	5.3	3.6	1.7	.6	.5	.1	10.9
Other hardwoods	5.5	3.9	1.6	.6	.4	.2	12.0
Noncommercial species	--	--	--	--	--	--	.3
Total hardwoods	101.0	47.6	53.4	20.0	14.6	5.4	89.7
All species	101.3	47.7	53.6	20.1	14.6	5.5	89.9

JACKSON COUNTY

Softwoods:							
Eastern redcedar	0.7	0.1	0.6	0.3	--	0.3	0.9
Total softwoods	.7	.1	.6	.3	--	.3	.9
Hardwoods:							
Select white oaks	14.0	5.3	8.7	3.4	2.5	.9	13.9
Other white oaks	13.7	9.3	4.4	1.7	1.0	.7	8.5
Select red oaks	3.6	1.3	2.3	1.0	.9	.1	2.1
Red oaks	15.3	6.5	8.8	3.4	2.2	1.2	9.2
Other red oaks	10.5	4.5	6.0	2.2	2.0	.2	7.4
Hickory A	10.3	5.4	4.9	1.9	1.6	.3	2.7
Hickory B	5.1	4.7	.4	.2	.1	.1	4.7
Soft maple	3.2	.5	2.7	1.0	.8	.2	2.2
Ash	4.3	2.6	1.7	.6	.5	.1	4.7
Sycamore	1.6	.2	1.4	.7	.6	.1	.9
Cottonwood	1.0	.4	.6	.2	.2	--	.4
River birch	1.5	.9	.6	.2	.2	--	.6
Basswood	--	--	--	--	--	--	.5
Black walnut	5.3	2.1	3.2	1.2	.8	.4	6.6
Black cherry	.2	.1	.1	--	--	--	.9
Elm	3.0	1.9	1.1	.4	.2	.2	8.9
Other hardwoods	6.4	3.4	3.0	1.0	.6	.4	17.6
Noncommercial species	--	--	--	--	--	--	.6
Total hardwoods	99.0	49.1	49.9	19.1	14.2	4.9	92.4
All species	99.7	49.2	50.5	19.4	14.2	5.2	93.3

[1/] International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1]			Thousand cords
JASPER COUNTY							
Softwoods:							
Eastern redcedar	0.9	0.2	0.7	0.3	--	0.3	0.8
Total softwoods	.9	.2	.7	.3	--	.3	.8
Hardwoods:							
Select white oaks	39.0	10.7	28.3	11.1	9.2	1.9	26.8
Other white oaks	38.0	23.6	14.4	5.5	3.9	1.6	15.9
Select red oaks	11.1	3.2	7.9	3.4	3.2	.2	5.7
Red oaks	41.1	16.0	25.1	9.6	6.8	2.8	22.5
Other red oaks	25.3	6.9	18.4	7.0	6.7	.3	12.9
Hickory A	25.8	10.2	15.6	6.1	5.4	.7	8.7
Hickory B	9.7	8.6	1.1	.5	.3	.2	6.9
Soft maple	9.7	1.3	8.4	3.0	2.5	.5	6.1
Ash	11.4	6.1	5.3	1.9	1.8	.1	11.9
Sycamore	5.6	.4	5.2	2.5	2.2	.3	2.7
Cottonwood	3.6	1.3	2.3	.9	.9	--	1.5
River birch	4.9	2.8	2.1	.7	.7	--	2.2
Basswood	--	--	--	--	--	--	1.2
Black walnut	14.0	5.0	9.0	3.3	2.6	.7	14.2
Black cherry	.5	.3	.2	.1	.1	--	1.8
Elm	7.0	4.1	2.9	1.0	.8	.2	17.5
Other hardwoods	15.9	7.3	8.6	3.1	2.3	.8	38.2
Noncommercial species	--	--	--	--	--	--	1.3
Total hardwoods	262.6	107.8	154.8	59.7	49.4	10.3	198.0
All species	263.5	108.0	155.5	60.0	49.4	10.6	198.8
JOHNSON COUNTY							
Softwoods:							
Eastern redcedar	1.5	0.3	1.2	0.5	--	0.5	1.3
Total softwoods	1.5	.3	1.2	.5	--	.5	1.3
Hardwoods:							
Select white oaks	40.1	12.6	27.5	10.8	8.3	2.5	30.3
Other white oaks	42.6	27.7	14.9	5.7	3.7	2.0	20.3
Select red oaks	10.7	3.4	7.3	3.1	2.9	.2	5.3
Red oaks	43.6	18.9	24.7	9.5	6.1	3.4	23.3
Other red oaks	23.8	8.3	15.5	5.9	5.5	.4	15.5
Hickory A	26.5	12.5	14.0	5.5	4.6	.9	8.2
Hickory B	11.8	10.6	1.2	.5	.3	.2	9.2
Soft maple	8.5	1.3	7.2	2.6	2.0	.6	5.9
Ash	10.8	6.1	4.7	1.6	1.4	.2	11.6
Sycamore	4.8	.5	4.3	2.1	1.8	.3	2.4
Cottonwood	2.9	1.0	1.9	.7	.7	--	1.2
River birch	4.1	2.5	1.6	.6	.6	--	1.8
Basswood	--	--	--	--	--	--	1.3
Black walnut	13.7	5.2	8.5	3.1	2.3	.8	14.2
Black cherry	.5	.3	.2	.1	.1	--	2.0
Elm	6.9	4.1	2.8	.9	.7	.2	18.6
Other hardwoods	15.4	7.7	7.7	2.8	1.9	.9	38.6
Noncommercial species	--	--	--	--	--	--	1.3
Total hardwoods	266.7	122.7	144.0	55.5	42.9	12.6	211.0
All species	268.2	123.0	145.2	56.0	42.9	13.1	212.3

1/ International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

KNOX COUNTY

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1]			Thousand cords
Softwoods:							
Eastern redcedar	0.8	0.3	0.5	0.2	0.1	0.1	0.4
Total softwoods	.8	.3	.5	.2	.1	.1	.4
Hardwoods:							
Select white oaks	68.6	29.5	39.1	14.5	11.8	2.7	46.1
Other white oaks	5.7	3.8	1.9	.8	.6	.2	3.9
Select red oaks	15.9	4.3	11.6	4.3	3.5	.8	7.1
Red oaks	19.5	9.5	10.0	3.8	2.1	1.7	11.3
Other red oaks	13.0	5.6	7.4	2.7	1.5	1.2	12.5
Hickory A	19.2	12.4	6.8	2.5	1.7	.8	8.1
Hickory B	4.2	3.6	.6	.2	.1	.1	2.2
Hard maple	1.4	.7	.7	.2	.2	--	1.8
Soft maple	9.9	2.9	7.0	2.5	2.3	.2	12.2
Ash	6.1	3.6	2.5	1.0	.8	.2	4.7
Sycamore	7.5	.7	6.8	2.8	2.7	.1	1.6
Cottonwood	7.7	.5	7.2	3.0	2.7	.3	1.8
River birch	3.9	2.1	1.8	.6	.4	.2	2.1
Basswood	1.5	.5	1.0	.3	.2	.1	1.9
Black walnut	7.1	3.6	3.5	1.3	.9	.4	7.1
Black cherry	.7	.5	.2	.1	--	.1	2.3
Elm	7.6	4.5	3.1	1.1	.9	.2	13.6
Other hardwoods	7.2	4.6	2.6	1.0	.8	.2	13.4
Noncommercial species	--	--	--	--	--	--	.5
Total hardwoods	206.7	92.9	113.8	42.7	33.2	9.5	154.2
All species	207.5	93.2	114.3	42.9	33.3	9.6	154.6

LAFAYETTE COUNTY

Softwoods:							
Eastern redcedar	0.4	0.1	0.3	0.1	--	0.1	0.4
Total softwoods	.4	.1	.3	.1	--	.1	.4
Hardwoods:							
Select white oaks	17.2	4.5	12.7	5.0	4.3	.7	10.7
Other white oaks	14.4	9.0	5.4	2.1	1.4	.7	6.7
Select red oaks	5.3	1.6	3.7	1.6	1.5	.1	2.3
Red oaks	17.2	6.7	10.5	4.1	2.9	1.2	9.5
Other red oaks	13.3	3.5	9.8	3.7	3.6	.1	6.5
Hickory A	12.3	4.7	7.6	3.0	2.7	.3	4.0
Hickory B	4.5	3.9	.6	.2	.1	.1	3.2
Soft maple	6.8	.8	6.0	2.2	1.9	.3	3.9
Ash	6.9	3.5	3.4	1.2	1.1	.1	7.0
Sycamore	3.8	.2	3.6	1.7	1.5	.2	1.5
Cottonwood	2.6	.9	1.7	.6	.6	--	1.1
River birch	3.4	2.0	1.4	.5	.5	--	1.6
Basswood	--	--	--	--	--	--	.7
Black walnut	6.2	1.9	4.3	1.6	1.3	.3	6.2
Black cherry	.2	.1	.1	--	--	--	1.1
Elm	3.9	2.0	1.9	.6	.5	.1	9.7
Other hardwoods	8.5	3.8	4.7	1.7	1.3	.4	18.8
Noncommercial species	--	--	--	--	--	--	.6
Total hardwoods	126.5	49.1	77.4	29.8	25.2	4.6	95.1
All species	126.9	49.2	77.7	29.9	25.2	4.7	95.5

[1] International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

LAWRENCE COUNTY

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1/]			Thousand cords
Softwoods:							
Eastern redcedar	1.6	0.4	1.2	0.5	--	0.5	1.0
Total softwoods	1.6	.4	1.2	.5	--	.5	1.0
Hardwoods:							
Select white oaks	51.7	15.3	36.4	14.3	11.0	3.3	33.1
Other white oaks	62.4	39.0	23.4	9.0	6.2	2.8	26.4
Select red oaks	12.6	3.5	9.1	3.8	3.6	.2	6.3
Red oaks	58.9	26.4	32.5	12.5	7.8	4.7	30.1
Other red oaks	21.8	7.6	14.2	5.4	5.1	.3	15.6
Hickory A	27.8	13.1	14.7	5.7	5.0	.7	10.3
Hickory B	13.1	11.8	1.3	.5	.3	.2	9.4
Soft maple	3.1	.4	2.7	1.0	.7	.3	2.4
Ash	6.8	4.0	2.8	1.0	.9	.1	8.3
Sycamore	2.1	.1	2.0	1.0	.9	.1	2.3
Cottonwood	1.3	.4	.9	.4	.4	--	.4
River birch	1.7	.8	.9	.3	.3	--	.6
Basswood	--	--	--	--	--	--	1.0
Black walnut	13.8	5.0	8.8	3.2	2.4	.8	10.1
Black cherry	.8	.5	.3	.1	.1	--	1.1
Elm	5.1	2.9	2.2	.7	.6	.1	13.5
Other hardwoods	13.1	6.1	7.0	2.6	2.0	.6	27.1
Noncommercial species	--	--	--	--	--	--	1.2
Total hardwoods	296.1	136.9	159.2	61.5	47.3	14.2	199.2
All species	297.7	137.3	160.4	62.0	47.3	14.7	200.2

LEWIS COUNTY

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1/]			Thousand cords
Softwoods:							
Eastern redcedar	1.1	0.5	0.6	0.4	0.2	0.2	0.5
Total softwoods	1.1	.5	.6	.4	.2	.2	.5
Hardwoods:							
Select white oaks	104.8	43.8	61.0	22.5	18.6	3.9	67.0
Other white oaks	8.8	5.9	2.9	1.2	1.0	.2	5.5
Select red oaks	24.2	6.4	17.8	6.6	5.3	1.3	10.0
Red oaks	28.9	14.0	14.9	5.7	3.2	2.5	16.5
Other red oaks	18.4	7.7	10.7	3.9	2.3	1.6	15.8
Hickory A	27.9	18.2	9.7	3.6	2.5	1.1	12.0
Hickory B	6.3	5.5	.8	.3	.1	.2	3.4
Hard maple	2.2	1.1	1.1	.3	.3	--	3.2
Soft maple	12.1	3.2	8.9	3.1	2.9	.2	15.2
Ash	8.4	4.8	3.6	1.4	1.2	.2	6.6
Sycamore	10.1	.8	9.3	3.9	3.7	.2	2.2
Cottonwood	9.2	.7	8.5	3.5	3.1	.4	2.9
River birch	4.9	2.5	2.4	.8	.6	.2	2.4
Basswood	2.2	.6	1.6	.5	.2	.3	2.5
Black walnut	10.3	5.0	5.3	2.0	1.4	.6	10.5
Black cherry	.8	.6	.2	.1	.1	--	2.7
Elm	10.6	6.2	4.4	1.5	1.2	.3	19.9
Other hardwoods	10.1	6.6	3.5	1.3	1.0	.3	19.4
Noncommercial species	--	--	--	--	--	--	.7
Total hardwoods	300.2	133.6	166.6	62.2	48.7	13.5	218.4
All species	301.3	134.1	167.2	62.6	48.9	13.7	218.9

[1/] International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

LINCOLN COUNTY

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1]			Thousand cords
Softwoods:							
Eastern redcedar	1.8	0.8	1.0	0.6	0.3	0.3	0.9
Total softwoods	1.8	.8	1.0	.6	.3	.3	.9
Hardwoods:							
Select white oaks	173.7	73.9	99.8	36.9	30.1	6.8	111.6
Other white oaks	14.5	9.7	4.8	1.9	1.6	.3	9.5
Select red oaks	40.1	11.0	29.1	10.9	8.7	2.2	16.8
Red oaks	48.8	24.0	24.8	9.4	5.1	4.3	28.3
Other red oaks	31.9	13.6	18.3	6.6	3.8	2.8	27.3
Hickory A	47.5	31.5	16.0	6.0	4.0	2.0	20.1
Hickory B	11.0	9.6	1.4	.6	.3	.3	5.5
Hard maple	3.4	1.9	1.5	.4	.4	--	4.4
Soft maple	23.7	6.5	17.2	6.0	5.6	.4	28.9
Ash	14.8	8.6	6.2	2.4	2.0	.4	10.8
Sycamore	18.4	1.6	16.8	7.1	6.7	.4	4.1
Cottonwood	18.7	1.2	17.5	7.2	6.6	.6	5.1
River birch	9.2	4.8	4.4	1.5	1.1	.4	4.7
Basswood	3.9	1.1	2.8	.9	.4	.5	4.4
Black walnut	17.5	8.5	9.0	3.4	2.4	1.0	17.3
Black cherry	1.5	1.2	.3	.1	.1	--	4.8
Elm	18.9	11.0	7.9	2.7	2.2	.5	32.5
Other hardwoods	17.4	11.1	6.3	2.3	1.7	.6	32.2
Noncommercial species	--	--	--	--	--	--	1.2
Total hardwoods	514.9	230.8	284.1	106.3	82.8	23.5	369.5
All species	516.7	231.6	285.1	106.9	83.1	23.8	370.4

LINN COUNTY

Softwoods:							
Eastern redcedar	0.4	0.2	0.2	0.1	0.1	--	0.2
Total softwoods	.4	.2	.2	.1	.1	--	.2
Hardwoods:							
Select white oaks	41.6	16.2	25.4	9.5	8.0	1.5	28.9
Other white oaks	2.7	1.6	1.1	.5	.4	.1	1.7
Select red oaks	9.8	2.3	7.5	2.8	2.4	.4	4.4
Red oaks	10.4	4.3	6.1	2.3	1.4	.9	5.6
Other red oaks	11.8	4.3	7.5	2.7	1.8	.9	8.4
Hickory A	12.3	6.8	5.5	2.1	1.5	.6	6.3
Hickory B	3.5	3.0	.5	.2	.1	.1	2.1
Hard maple	1.5	.9	.6	.2	.1	.1	2.6
Soft maple	17.0	5.0	12.0	4.3	3.9	.4	19.7
Ash	7.5	4.0	3.5	1.4	1.1	.3	4.6
Sycamore	11.3	1.1	10.2	4.2	3.8	.4	2.6
Cottonwood	13.7	.9	12.8	5.3	4.9	.4	4.1
River birch	5.1	2.6	2.5	.8	.7	.1	3.0
Basswood	2.1	.7	1.4	.4	.1	.3	2.3
Black walnut	8.8	4.6	4.2	1.6	1.1	.5	8.2
Black cherry	.4	.3	.1	--	--	--	1.6
Elm	9.5	5.7	3.8	1.3	1.1	.2	18.2
Other hardwoods	10.1	6.5	3.6	1.4	1.0	.4	19.2
Noncommercial species	--	--	--	--	--	--	.4
Total hardwoods	179.1	70.8	108.3	41.0	33.4	7.6	143.9
All species	179.5	71.0	108.5	41.1	33.5	7.6	144.1

1/ International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

LIVINGSTON COUNTY

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1/]			Thousand cords
Softwoods:							
Eastern redcedar	0.5	0.2	0.3	0.2	0.1	0.1	0.3
Total softwoods	.5	.2	.3	.2	.1	.1	.3
Hardwoods:							
Select white oaks	41.6	17.8	23.8	8.9	7.1	1.8	32.3
Other white oaks	2.6	1.6	1.0	.4	.3	.1	1.9
Select red oaks	9.8	2.7	7.1	2.7	2.1	.6	5.0
Red oaks	11.2	5.4	5.8	2.2	1.1	1.1	6.8
Other red oaks	11.9	4.8	7.1	2.5	1.5	1.0	9.9
Hickory A	13.3	7.8	5.5	2.0	1.4	.6	6.5
Hickory B	3.5	3.0	.5	.2	.1	.1	1.8
Hard maple	1.9	.9	1.0	.3	.3	--	2.7
Soft maple	15.4	4.5	10.9	3.9	3.5	.4	18.2
Ash	7.3	3.8	3.5	1.3	1.1	.2	4.8
Sycamore	10.6	1.0	9.6	3.9	3.5	.4	2.5
Cottonwood	11.8	.8	11.0	4.5	4.2	.3	3.6
River birch	4.8	2.4	2.4	.8	.7	.1	3.0
Basswood	1.9	.6	1.3	.4	.1	.3	2.3
Black walnut	8.1	4.3	3.8	1.5	1.0	.5	8.8
Black cherry	.5	.4	.1	--	--	--	1.8
Elm	8.9	5.5	3.4	1.2	1.0	.2	17.1
Other hardwoods	9.8	6.2	3.6	1.4	1.1	.3	18.8
Noncommercial species	--	--	--	--	--	--	.4
Total hardwoods	174.9	73.5	101.4	38.1	30.1	8.0	148.2
All species	175.4	73.7	101.7	38.3	30.2	8.1	148.5

MACON COUNTY

Softwoods:							
Eastern redcedar	1.5	0.6	0.9	0.5	0.2	0.3	0.8
Total softwoods	1.5	.6	.9	.5	.2	.3	.8
Hardwoods:							
Select white oaks	135.8	60.9	74.9	27.8	22.0	5.8	92.1
Other white oaks	11.3	7.7	3.6	1.4	1.1	.3	7.3
Select red oaks	31.5	9.3	22.2	8.3	6.4	1.9	14.2
Red oaks	39.9	20.4	19.5	7.4	3.8	3.6	23.6
Other red oaks	25.4	11.8	13.6	5.0	2.5	2.5	23.7
Hickory A	37.5	25.8	11.7	4.3	2.7	1.6	16.0
Hickory B	8.6	7.5	1.1	.4	.2	.2	4.1
Hard maple	2.5	1.4	1.1	.4	.4	--	3.3
Soft maple	12.8	3.6	9.2	3.2	2.8	.4	16.9
Ash	10.7	6.5	4.2	1.6	1.2	.4	8.8
Sycamore	10.8	1.1	9.7	4.1	3.8	.3	2.6
Cottonwood	9.0	.7	8.3	3.4	2.9	.5	3.4
River birch	6.7	3.8	2.9	1.0	.7	.3	3.4
Basswood	2.9	.9	2.0	.6	.3	.3	3.2
Black walnut	13.4	7.3	6.1	2.2	1.5	.7	14.7
Black cherry	1.3	1.0	.3	.1	--	.1	4.1
Elm	14.0	8.9	5.1	1.8	1.4	.4	25.4
Other hardwoods	12.7	9.0	3.7	1.4	1.0	.4	25.0
Noncommercial species	--	--	--	--	--	--	1.0
Total hardwoods	386.8	187.6	199.2	74.4	54.7	19.7	292.8
All species	388.3	188.2	200.1	74.9	54.9	20.0	293.6

1/ International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

MARION COUNTY

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1/]			Thousand cords
Softwoods:							
Eastern redcedar	1.0	0.4	0.6	0.3	0.2	0.1	0.5
Total softwoods	1.0	.4	.6	.3	.2	.1	.5
Hardwoods:							
Select white oaks	95.0	41.9	53.1	19.6	15.7	3.9	60.1
Other white oaks	8.4	5.9	2.5	1.0	.8	.2	5.4
Select red oaks	21.9	6.5	15.4	5.7	4.4	1.3	9.0
Red oaks	27.5	14.1	13.4	5.1	2.5	2.6	16.0
Other red oaks	16.0	6.9	9.1	3.3	1.8	1.5	14.0
Hickory A	25.9	17.8	8.1	3.0	1.9	1.1	10.9
Hickory B	5.9	5.2	.7	.3	.1	.2	2.9
Hard maple	2.3	1.4	.9	.3	.3	--	3.0
Soft maple	9.3	2.5	6.8	2.4	2.2	.2	11.5
Ash	7.0	4.1	2.9	1.1	.9	.2	5.6
Sycamore	7.8	.6	7.2	3.0	2.8	.2	1.7
Cottonwood	7.5	.5	7.0	2.9	2.6	.3	2.3
River birch	3.9	2.1	1.8	.6	.5	.1	2.0
Basswood	2.1	.5	1.6	.5	.2	.3	2.4
Black walnut	9.0	4.4	4.6	1.7	1.1	.6	9.2
Black cherry	.8	.6	.2	.1	.1	--	2.5
Elm	9.7	5.9	3.8	1.3	1.0	.3	16.6
Other hardwoods	8.4	5.4	3.0	1.1	.8	.3	15.9
Noncommercial species	--	--	--	--	--	--	.7
Total hardwoods	268.4	126.3	142.1	53.0	39.7	13.3	191.7
All species	269.4	126.7	142.7	53.3	39.9	13.4	192.2

MERCER COUNTY

Softwoods:							
Eastern redcedar	0.7	0.3	0.4	0.2	0.1	0.1	0.3
Total softwoods	.7	.3	.4	.2	.1	.1	.3
Hardwoods:							
Select white oaks	59.8	24.9	34.9	12.9	10.7	2.2	40.2
Other white oaks	4.8	3.1	1.7	.7	.6	.1	3.5
Select red oaks	14.3	3.8	10.5	3.9	3.2	.7	6.2
Red oaks	17.0	8.1	8.9	3.4	1.9	1.5	10.2
Other red oaks	11.2	4.9	6.3	2.2	1.3	.9	10.3
Hickory A	16.7	10.7	6.0	2.2	1.5	.7	7.4
Hickory B	3.7	3.2	.5	.2	.1	.1	2.1
Hard maple	1.9	.8	1.1	.4	.4	--	2.6
Soft maple	6.0	1.6	4.4	1.5	1.4	.1	7.8
Ash	4.6	2.5	2.1	.8	.7	.1	4.2
Sycamore	5.4	.4	5.0	2.1	2.0	.1	1.1
Cottonwood	4.7	.4	4.3	1.8	1.6	.2	1.6
River birch	2.7	1.4	1.3	.4	.3	.1	1.5
Basswood	1.2	.3	.9	.3	.2	.1	1.5
Black walnut	5.7	2.7	3.0	1.1	.7	.4	6.2
Black cherry	.5	.4	.1	.1	--	.1	1.7
Elm	5.7	3.4	2.3	.8	.6	.2	11.7
Other hardwoods	6.2	3.9	2.3	.9	.7	.2	11.9
Noncommercial species	--	--	--	--	--	--	.4
Total hardwoods	172.1	76.5	95.6	35.7	27.9	7.8	132.1
All species	172.8	76.8	96.0	35.9	28.0	7.9	132.4

1/ International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

MONROE COUNTY

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1/]			Thousand cords
Softwoods:							
Eastern redcedar	1.1	0.5	0.6	0.4	0.2	0.2	0.5
Total softwoods	1.1	.5	.6	.4	.2	.2	.5
Hardwoods:							
Select white oaks	102.7	41.9	60.8	22.4	18.6	3.8	68.1
Other white oaks	8.1	5.1	3.0	1.2	1.0	.2	5.5
Select red oaks	23.5	6.0	17.5	6.5	5.4	1.1	10.1
Red oaks	27.1	12.6	14.5	5.5	3.2	2.3	15.4
Other red oaks	20.0	8.1	11.9	4.3	2.5	1.8	18.2
Hickory A	27.8	17.3	10.5	3.9	2.8	1.1	12.3
Hickory B	6.5	5.6	.9	.3	.2	.1	3.4
Hard maple	2.1	1.2	.9	.3	.3	--	2.8
Soft maple	17.2	4.8	12.4	4.4	4.0	.4	21.5
Ash	10.0	5.6	4.4	1.7	1.4	.3	7.0
Sycamore	13.2	1.2	12.0	5.0	4.7	.3	3.0
Cottonwood	12.5	.8	11.7	4.8	4.3	.5	3.9
River birch	6.3	3.2	3.1	1.1	.9	.2	3.5
Basswood	2.6	.8	1.8	.6	.3	.3	2.9
Black walnut	11.9	5.9	6.0	2.3	1.6	.7	11.9
Black cherry	.9	.6	.3	.1	--	.1	3.1
Elm	12.5	7.4	5.1	1.8	1.5	.3	22.7
Other hardwoods	12.1	7.8	4.3	1.6	1.2	.4	22.9
Noncommercial species	--	--	--	--	--	--	.7
Total hardwoods	317.0	135.9	181.1	67.8	53.9	13.9	238.9
All species	318.1	136.4	181.7	68.2	54.1	14.1	239.4

NODAWAY COUNTY

Softwoods:							
Eastern redcedar	0.4	0.2	0.2	0.2	0.1	0.1	0.2
Total softwoods	.4	.2	.2	.2	.1	.1	.2
Hardwoods:							
Select white oaks	39.5	17.1	22.4	8.3	6.7	1.6	29.3
Other white oaks	2.6	1.6	1.0	.4	.3	.1	1.9
Select red oaks	9.3	2.7	6.6	2.4	1.9	.5	4.7
Red oaks	10.8	5.3	5.5	2.0	1.1	.9	6.6
Other red oaks	10.4	4.4	6.0	2.2	1.3	.9	9.4
Hickory A	11.8	7.4	4.4	1.6	1.1	.5	5.6
Hickory B	3.0	2.6	.4	.2	.1	.1	1.4
Hard maple	1.2	.7	.5	.2	.2	--	1.6
Soft maple	10.3	3.1	7.2	2.6	2.3	.3	12.3
Ash	5.4	3.0	2.4	.9	.7	.2	3.6
Sycamore	7.1	.7	6.4	2.6	2.4	.2	1.6
Cottonwood	8.3	.5	7.8	3.2	2.9	.3	2.4
River birch	3.5	1.8	1.7	.6	.4	.2	2.1
Basswood	1.4	.4	1.0	.3	.1	.2	1.7
Black walnut	6.4	3.5	2.9	1.1	.7	.4	7.3
Black cherry	.5	.4	.1	.1	--	.1	1.7
Elm	7.0	4.5	2.5	.9	.7	.2	13.5
Other hardwoods	7.1	4.7	2.4	.9	.7	.2	14.6
Noncommercial species	--	--	--	--	--	--	.4
Total hardwoods	145.6	64.4	81.2	30.5	23.6	6.9	121.7
All species	146.0	64.6	81.4	30.7	23.7	7.0	121.9

1/ International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

PETTIS COUNTY

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1/]			Thousand cords
Softwoods:							
Eastern redcedar	1.1	0.4	0.7	0.3	--	0.3	0.5
Total softwoods	1.1	.4	.7	.3	--	.3	.5
Hardwoods:							
Select white oaks	37.6	11.2	26.4	10.4	7.7	2.7	23.9
Other white oaks	45.3	29.8	15.5	5.9	3.7	2.2	18.3
Select red oaks	10.3	3.4	6.9	2.9	2.6	.3	4.7
Red oaks	43.9	19.8	24.1	9.2	5.6	3.6	21.5
Other red oaks	18.8	6.2	12.6	4.8	4.5	.3	12.3
Hickory A	23.5	11.0	12.5	4.8	4.0	.8	8.0
Hickory B	9.6	8.4	1.2	.5	.2	.3	6.1
Soft maple	6.6	.9	5.7	2.1	1.6	.5	4.3
Ash	8.5	4.8	3.7	1.3	1.2	.1	9.7
Sycamore	3.6	.3	3.3	1.6	1.4	.2	2.0
Cottonwood	2.3	.8	1.5	.6	.6	--	.9
River birch	3.2	1.8	1.4	.5	.5	--	1.4
Basswood	--	--	--	--	--	--	1.0
Black walnut	11.4	4.2	7.2	2.7	2.0	.7	9.1
Black cherry	.6	.4	.2	.1	.1	--	1.5
Elm	5.6	3.4	2.2	.8	.6	.2	13.9
Other hardwoods	12.5	6.0	6.5	2.3	1.6	.7	28.7
Noncommercial species	--	--	--	--	--	--	1.2
Total hardwoods	243.3	112.4	130.9	50.5	37.9	12.6	168.5
All species	244.4	112.8	131.6	50.8	37.9	12.9	169.0

PIKE COUNTY

Softwoods:							
Eastern redcedar	2.2	0.9	1.3	0.7	0.3	0.4	0.9
Total softwoods	2.2	.9	1.3	.7	.3	.4	.9
Hardwoods:							
Select white oaks	200.6	85.4	115.2	42.6	34.8	7.8	131.3
Other white oaks	16.2	10.7	5.5	2.2	1.8	.4	10.9
Select red oaks	46.6	12.9	33.7	12.5	10.1	2.4	19.9
Red oaks	56.4	27.7	28.7	10.9	6.0	4.9	32.9
Other red oaks	36.5	15.2	21.3	7.7	4.5	3.2	32.3
Hickory A	55.0	36.2	18.8	7.0	4.8	2.2	23.2
Hickory B	12.4	10.7	1.7	.7	.3	.4	6.3
Hard maple	4.2	2.4	1.8	.6	.6	--	5.4
Soft maple	26.8	7.3	19.5	6.9	6.4	.5	33.2
Ash	17.1	9.9	7.2	2.8	2.3	.5	12.6
Sycamore	21.1	1.8	19.3	8.1	7.7	.4	4.6
Cottonwood	20.4	1.2	19.2	7.9	7.2	.7	5.3
River birch	10.3	5.2	5.1	1.8	1.4	.4	5.3
Basswood	4.4	1.2	3.2	1.0	.5	.5	5.2
Black walnut	20.3	9.8	10.5	3.9	2.7	1.2	20.3
Black cherry	1.8	1.4	.4	.1	.1	--	5.9
Elm	21.9	12.9	9.0	3.1	2.5	.6	37.9
Other hardwoods	19.8	12.6	7.2	2.7	2.1	.6	37.0
Noncommercial species	--	--	--	--	--	--	1.4
Total hardwoods	591.8	264.5	327.3	122.5	95.8	26.7	430.9
All species	594.0	265.4	328.6	123.2	96.1	27.1	431.8

[1/] International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1]			Thousand cords
PLATTE COUNTY							
Softwoods:							
Eastern redcedar	0.5	0.2	0.3	0.2	0.1	0.1	0.4
Total softwoods	.5	.2	.3	.2	.1	.1	.4
Hardwoods:							
Select white oaks	45.9	25.1	20.8	7.8	5.2	2.6	39.1
Other white oaks	3.4	2.6	.8	.3	.2	.1	2.6
Select red oaks	11.1	4.3	6.8	2.5	1.5	1.0	6.4
Red oaks	15.3	8.7	6.6	2.5	.8	1.7	10.0
Other red oaks	13.4	6.6	6.8	2.4	1.0	1.4	13.0
Hickory A	15.7	10.9	4.8	1.8	.9	.9	7.1
Hickory B	3.9	3.4	.5	.2	.1	.1	1.8
Hard maple	3.1	1.9	1.2	.4	.4	--	4.4
Soft maple	8.4	2.7	5.7	2.1	1.7	.4	10.7
Ash	5.9	3.4	2.5	.9	.6	.3	5.3
Sycamore	6.0	.8	5.2	2.1	1.9	.2	1.5
Cottonwood	6.3	.5	5.8	2.4	2.1	.3	2.2
River birch	4.2	2.6	1.6	.6	.3	.3	2.6
Basswood	2.1	.7	1.4	.5	.1	.4	2.7
Black walnut	8.0	4.3	3.7	1.3	.6	.7	9.0
Black cherry	.7	.5	.2	.1	--	.1	2.3
Elm	9.1	6.6	2.5	.9	.6	.3	16.4
Other hardwoods	8.0	5.4	2.6	1.0	.7	.3	16.0
Noncommercial species	--	--	--	--	--	--	.4
Total hardwoods	170.5	91.0	79.5	29.8	18.7	11.1	153.5
All species	171.0	91.2	79.8	30.0	18.8	11.2	153.9
PUTNAM COUNTY							
Softwoods:							
Eastern redcedar	1.0	0.4	0.6	0.3	0.1	0.2	0.4
Total softwoods	1.0	.4	.6	.3	.1	.2	.4
Hardwoods:							
Select white oaks	85.3	37.1	48.2	17.9	14.4	3.5	58.7
Other white oaks	7.0	4.6	2.4	.9	.8	.1	4.9
Select red oaks	19.8	5.6	14.2	5.3	4.2	1.1	9.1
Red oaks	24.5	12.2	12.3	4.7	2.5	2.2	14.8
Other red oaks	15.6	6.7	8.9	3.2	1.8	1.4	15.6
Hickory A	23.6	15.7	7.9	2.9	2.0	.9	10.2
Hickory B	5.1	4.4	.7	.3	.1	.2	2.6
Hard maple	1.7	.9	.8	.2	.2	--	2.3
Soft maple	9.1	2.5	6.6	2.3	2.1	.2	12.0
Ash	6.7	4.0	2.7	1.1	.9	.2	5.5
Sycamore	7.7	.7	7.0	2.9	2.8	.1	1.7
Cottonwood	6.5	.4	6.1	2.5	2.2	.3	2.0
River birch	3.9	2.0	1.9	.7	.5	.2	2.2
Basswood	1.7	.5	1.2	.4	.2	.2	2.1
Black walnut	8.3	4.2	4.1	1.5	1.1	.4	9.1
Black cherry	.8	.6	.2	.1	--	.1	2.6
Elm	8.6	5.2	3.4	1.2	.9	.3	16.1
Other hardwoods	8.1	5.4	2.7	1.0	.8	.2	16.0
Noncommercial species	--	--	--	--	--	--	.6
Total hardwoods	244.0	112.7	131.3	49.1	37.5	11.6	188.1
All species	245.0	113.1	131.9	49.4	37.6	11.8	188.5

1/ International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

RALLS COUNTY

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1/]			Thousand cords
Softwoods:							
Eastern redcedar	1.1	0.5	0.6	0.4	0.2	0.2	0.4
Total softwoods	1.1	.5	.6	.4	.2	.2	.4
Hardwoods:							
Select white oaks	104.2	42.5	61.7	22.8	19.0	3.8	68.2
Other white oaks	8.2	5.2	3.0	1.2	1.0	.2	5.8
Select red oaks	24.3	6.3	18.0	6.7	5.5	1.2	10.2
Red oaks	27.7	12.9	14.8	5.6	3.3	2.3	15.9
Other red oaks	18.0	7.7	10.3	3.7	2.1	1.6	17.1
Hickory A	27.5	17.4	10.1	3.8	2.7	1.1	12.0
Hickory B	6.1	5.3	.8	.3	.2	.1	3.3
Hard maple	2.3	1.3	1.0	.3	.3	--	3.1
Soft maple	11.5	3.0	8.5	2.9	2.7	.2	15.1
Ash	8.0	4.5	3.5	1.3	1.1	.2	6.3
Sycamore	9.9	.8	9.1	3.8	3.6	.2	2.1
Cottonwood	8.2	.6	7.6	3.2	2.8	.4	2.5
River birch	4.9	2.5	2.4	.9	.7	.2	2.5
Basswood	2.2	.6	1.6	.5	.2	.3	2.5
Black walnut	10.4	4.9	5.5	2.0	1.4	.6	10.6
Black cherry	.9	.7	.2	.1	.1	--	3.0
Elm	10.8	6.5	4.3	1.5	1.2	.3	19.5
Other hardwoods	9.6	6.2	3.4	1.3	1.0	.3	18.6
Noncommercial species	--	--	--	--	--	--	.7
Total hardwoods	294.7	128.9	165.8	61.9	48.9	13.0	219.0
All species	295.8	129.4	166.4	62.3	49.1	13.2	219.4

RANDOLPH COUNTY

Softwoods:							
Eastern redcedar	1.2	0.5	0.7	0.4	0.2	0.2	0.6
Total softwoods	1.2	.5	.7	.4	.2	.2	.6
Hardwoods:							
Select white oaks	113.1	48.5	64.6	23.8	19.4	4.4	74.3
Other white oaks	9.8	6.6	3.2	1.3	1.0	.3	6.7
Select red oaks	25.9	7.1	18.8	7.0	5.6	1.4	11.2
Red oaks	31.5	15.5	16.0	6.1	3.3	2.8	18.5
Other red oaks	18.7	8.4	10.3	3.8	2.0	1.8	19.0
Hickory A	30.0	20.1	9.9	3.7	2.5	1.2	12.9
Hickory B	6.6	5.7	.9	.3	.1	.2	3.4
Hard maple	2.0	1.0	1.0	.3	.3	--	2.8
Soft maple	9.0	2.5	6.5	2.3	2.2	.1	12.0
Ash	7.6	4.6	3.0	1.1	.9	.2	6.7
Sycamore	8.1	.7	7.4	3.2	3.0	.2	1.7
Cottonwood	6.9	.5	6.4	2.6	2.3	.3	2.0
River birch	4.5	2.5	2.0	.7	.5	.2	2.3
Basswood	2.0	.5	1.5	.5	.3	.2	2.4
Black walnut	9.7	4.8	4.9	1.8	1.3	.5	10.0
Black cherry	1.0	.7	.3	.1	--	.1	3.2
Elm	9.9	5.8	4.1	1.4	1.1	.3	18.3
Other hardwoods	8.9	5.9	3.0	1.1	.8	.3	17.2
Noncommercial species	--	--	--	--	--	--	.7
Total hardwoods	305.2	141.4	163.8	61.1	46.6	14.5	225.3
All species	306.4	141.9	164.5	61.5	46.8	14.7	225.9

1/ International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1]			Thousand cords
RAY COUNTY							
Softwoods:							
Eastern redcedar	0.7	0.3	0.4	0.3	0.1	0.2	0.4
Total softwoods	.7	.3	.4	.3	.1	.2	.4
Hardwoods:							
Select white oaks	63.0	30.7	32.3	12.0	8.9	3.1	48.5
Other white oaks	4.7	3.4	1.3	.5	.4	.1	3.7
Select red oaks	14.4	4.8	9.6	3.6	2.5	1.1	7.9
Red oaks	18.9	10.2	8.7	3.3	1.4	1.9	12.2
Other red oaks	16.0	7.4	8.6	3.1	1.4	1.7	16.0
Hickory A	19.9	13.5	6.4	2.4	1.4	1.0	9.0
Hickory B	4.8	4.2	.6	.2	.1	.1	2.2
Hard maple	1.9	1.2	.7	.2	.2	--	2.7
Soft maple	12.2	3.7	8.5	3.0	2.6	.4	15.4
Ash	7.4	4.5	2.9	1.1	.8	.3	5.7
Sycamore	8.5	1.0	7.5	3.1	2.8	.3	2.2
Cottonwood	9.0	.7	8.3	3.4	3.1	.3	2.8
River birch	5.2	3.0	2.2	.8	.5	.3	3.2
Basswood	2.3	.7	1.6	.5	.2	.3	2.6
Black walnut	9.1	4.9	4.2	1.5	.9	.6	9.8
Black cherry	.8	.6	.2	.1	--	.1	2.7
Elm	9.9	6.6	3.3	1.2	.9	.3	18.1
Other hardwoods	9.4	6.3	3.1	1.2	.9	.3	18.5
Noncommercial species	--	--	--	--	--	--	.5
Total hardwoods	217.4	107.4	110.0	41.2	29.0	12.2	183.7
All species	218.1	107.7	110.4	41.5	29.1	12.4	184.1
SALINE COUNTY							
Softwoods:							
Eastern redcedar	0.8	0.2	0.6	0.2	--	0.2	0.6
Total softwoods	.8	.2	.6	.2	--	.2	.6
Hardwoods:							
Select white oaks	24.8	7.3	17.5	6.9	5.4	1.5	16.8
Other white oaks	27.5	17.7	9.8	3.7	2.4	1.3	12.3
Select red oaks	7.2	2.3	4.9	2.1	1.9	.2	3.2
Red oaks	27.8	11.8	16.0	6.2	3.9	2.3	14.5
Other red oaks	15.9	5.1	10.8	4.1	3.9	.2	9.6
Hickory A	16.4	7.3	9.1	3.6	3.1	.5	5.5
Hickory B	7.0	6.2	.8	.3	.2	.1	5.0
Soft maple	6.5	.9	5.6	2.0	1.6	.4	4.3
Ash	7.8	4.4	3.4	1.2	1.1	.1	8.8
Sycamore	3.7	.3	3.4	1.6	1.4	.2	1.7
Cottonwood	2.3	.8	1.5	.6	.6	--	1.0
River birch	3.2	1.9	1.3	.5	.5	--	1.4
Basswood	--	--	--	--	--	--	.8
Black walnut	8.4	3.0	5.4	2.0	1.6	.4	7.9
Black cherry	.3	.2	.1	.1	.1	--	1.5
Elm	4.9	2.8	2.1	.7	.5	.2	12.4
Other hardwoods	10.6	5.0	5.6	2.0	1.3	.7	25.0
Noncommercial species	--	--	--	--	--	--	.9
Total hardwoods	174.3	77.0	97.3	37.6	29.5	8.1	132.6
All species	175.1	77.2	97.9	37.8	29.5	8.3	133.2

[1] International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

SCHUYLER COUNTY

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1/]			Thousand cords
Softwoods:							
Eastern redcedar	0.3	0.1	0.2	0.1	0.1	--	0.1
Total softwoods	.3	.1	.2	.1	.1	--	.1
Hardwoods:							
Select white oaks	25.6	10.9	14.7	5.4	4.4	1.0	18.8
Other white oaks	2.1	1.4	.7	.3	.2	.1	1.6
Select red oaks	5.9	1.7	4.2	1.6	1.3	.3	3.0
Red oaks	7.4	3.7	3.7	1.4	.8	.6	4.7
Other red oaks	4.4	1.7	2.7	1.0	.6	.4	5.2
Hickory A	7.3	4.8	2.5	.9	.6	.3	3.3
Hickory B	1.4	1.2	.2	.1	--	.1	.8
Hard maple	.5	.2	.3	.1	.1	--	.8
Soft maple	3.5	1.0	2.5	.9	.8	.1	4.3
Ash	2.3	1.3	1.0	.4	.3	.1	1.8
Sycamore	2.7	.3	2.4	1.0	.9	.1	.6
Cottonwood	2.7	.2	2.5	1.0	.9	.1	.7
River birch	1.1	.5	.6	.2	.2	--	.8
Basswood	.6	.2	.4	.1	.1	--	.7
Black walnut	2.7	1.3	1.4	.5	.4	.1	3.1
Black cherry	.3	.2	.1	--	--	--	.9
Elm	2.8	1.7	1.1	.4	.3	.1	5.4
Other hardwoods	2.8	1.8	1.0	.4	.3	.1	5.6
Noncommercial species	--	--	--	--	--	--	.2
Total hardwoods	76.1	34.1	42.0	15.7	12.2	3.5	62.3
All species	76.4	34.2	42.2	15.8	12.3	3.5	62.4

SCOTLAND COUNTY

Softwoods:							
Eastern redcedar	0.4	0.2	0.2	0.2	0.1	0.1	0.2
Total softwoods	.4	.2	.2	.2	.1	.1	.2
Hardwoods:							
Select white oaks	42.2	16.5	25.7	9.5	8.0	1.5	29.4
Other white oaks	2.8	1.6	1.2	.5	.4	.1	1.9
Select red oaks	9.5	2.1	7.4	2.8	2.4	.4	4.1
Red oaks	10.1	4.3	5.8	2.2	1.5	.7	5.6
Other red oaks	8.9	3.4	5.5	2.0	1.2	.8	8.5
Hickory A	10.8	6.4	4.4	1.7	1.2	.5	4.7
Hickory B	2.5	2.1	.4	.1	.1	--	1.4
Hard maple	1.0	.5	.5	.1	.1	--	1.3
Soft maple	8.9	2.5	6.4	2.3	2.0	.3	11.0
Ash	4.7	2.6	2.1	.8	.7	.1	3.1
Sycamore	6.5	.6	5.9	2.4	2.2	.2	1.4
Cottonwood	6.4	.4	6.0	2.5	2.3	.2	1.6
River birch	3.1	1.6	1.5	.5	.4	.1	1.6
Basswood	1.1	.4	.7	.2	.1	.1	1.4
Black walnut	5.4	2.7	2.7	1.0	.8	.2	5.2
Black cherry	.4	.2	.2	.1	--	.1	1.5
Elm	5.7	3.4	2.3	.8	.7	.1	10.0
Other hardwoods	5.2	3.3	1.9	.7	.6	.1	9.5
Noncommercial species	--	--	--	--	--	--	.3
Total hardwoods	135.2	54.6	80.6	30.2	24.7	5.5	103.5
All species	135.6	54.8	80.8	30.4	24.8	5.6	103.7

1/ International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1/]			Thousand cords
SHELBY COUNTY							
Softwoods:							
Eastern redcedar	0.8	0.4	0.4	0.3	0.2	0.1	0.3
Total softwoods	.8	.4	.4	.3	.2	.1	.3
Hardwoods:							
Select white oaks	76.3	29.5	46.8	17.2	14.7	2.5	48.6
Other white oaks	6.0	3.7	2.3	.9	.8	.1	3.9
Select red oaks	17.6	4.0	13.6	5.1	4.3	.8	7.1
Red oaks	19.5	8.6	10.9	4.1	2.6	1.5	10.9
Other red oaks	14.2	5.6	8.6	3.1	1.9	1.2	12.0
Hickory A	20.0	12.2	7.8	2.9	2.1	.8	8.6
Hickory B	4.4	3.8	.6	.2	.1	.1	2.6
Hard maple	1.6	.7	.9	.3	.3	--	2.3
Soft maple	12.1	3.3	8.8	3.1	2.9	.2	15.1
Ash	7.1	4.0	3.1	1.2	1.0	.2	5.0
Sycamore	9.6	.8	8.8	3.7	3.5	.2	2.1
Cottonwood	8.4	.5	7.9	3.3	3.0	.3	2.2
River birch	4.4	2.1	2.3	.8	.6	.2	2.2
Basswood	1.6	.5	1.1	.3	.2	.1	2.0
Black walnut	7.9	3.6	4.3	1.6	1.2	.4	7.4
Black cherry	.6	.5	.1	.1	.1	--	2.1
Elm	8.3	4.6	3.7	1.3	1.1	.2	15.3
Other hardwoods	8.1	5.0	3.1	1.2	1.0	.2	14.8
Noncommercial species	--	--	--	--	--	--	.5
Total hardwoods	227.7	93.0	134.7	50.4	41.4	9.0	164.7
All species	228.5	93.4	135.1	50.7	41.6	9.1	165.0
SULLIVAN COUNTY							
Softwoods:							
Eastern redcedar	0.9	0.4	0.5	0.3	0.2	0.1	0.4
Total softwoods	.9	.4	.5	.3	.2	.1	.4
Hardwoods:							
Select white oaks	76.1	31.1	45.0	16.6	13.8	2.8	53.1
Other white oaks	6.1	3.8	2.3	.9	.7	.2	4.1
Select red oaks	18.0	4.6	13.4	5.0	4.1	.9	8.1
Red oaks	20.8	9.6	11.2	4.2	2.5	1.7	12.4
Other red oaks	14.9	6.0	8.9	3.2	2.0	1.2	14.0
Hickory A	21.1	13.2	7.9	2.9	2.1	.8	9.3
Hickory B	4.7	4.0	.7	.3	.2	.1	2.5
Hard maple	1.7	.9	.8	.3	.3	--	2.3
Soft maple	12.2	3.3	8.9	3.1	2.8	.3	15.4
Ash	7.3	4.1	3.2	1.3	1.1	.2	5.3
Sycamore	9.7	.8	8.9	3.7	3.5	.2	2.1
Cottonwood	8.5	.5	8.0	3.3	3.0	.3	2.5
River birch	4.4	2.1	2.3	.8	.6	.2	2.4
Basswood	1.8	.6	1.2	.4	.2	.2	2.1
Black walnut	8.7	4.3	4.4	1.6	1.2	.4	9.3
Black cherry	.7	.5	.2	.1	--	.1	2.5
Elm	9.1	5.4	3.7	1.3	1.1	.2	17.0
Other hardwoods	9.0	5.8	3.2	1.2	.9	.3	17.3
Noncommercial species	--	--	--	--	--	--	.6
Total hardwoods	234.8	100.6	134.2	50.2	40.1	10.1	182.3
All species	235.7	101.0	134.7	50.5	40.3	10.2	182.7

1/ International 1/4-inch rule.

(Table 21 cont. on next page)

(Table 21 cont.)

VERNON COUNTY

Species	Growing stock			Sawtimber			Rough and rotten trees
	Total	Poletimber trees	Sawtimber trees	Total	In sawtimber stands	Other stands	
	Thousand cords			Million board feet[1/]			Thousand cords
Softwoods:							
Eastern redcedar	1.0	0.3	0.7	0.3	--	0.3	1.1
Total softwoods	1.0	.3	.7	.3	--	.3	1.1
Hardwoods:							
Select white oaks	56.3	13.8	42.5	16.8	14.7	2.1	32.7
Other white oaks	41.5	26.2	15.3	5.9	4.1	1.8	18.6
Select red oaks	17.3	5.0	12.3	5.3	5.0	.3	8.0
Red oaks	52.3	18.6	33.7	12.9	9.7	3.2	29.4
Other red oaks	43.6	10.2	33.4	12.7	12.2	.5	19.1
Hickory A	40.9	14.7	26.2	10.3	9.3	1.0	13.2
Hickory B	13.3	11.4	1.9	.8	.5	.3	9.0
Soft maple	23.5	2.8	20.7	7.4	6.4	1.0	13.6
Ash	22.3	10.7	11.6	4.1	3.8	.3	21.4
Sycamore	12.5	.8	11.7	5.6	5.0	.6	4.9
Cottonwood	8.7	3.2	5.5	2.1	2.1	--	3.7
River birch	11.6	6.8	4.8	1.7	1.7	--	5.5
Basswood	--	--	--	--	--	--	2.0
Black walnut	19.6	6.1	13.5	5.0	4.3	.7	18.4
Black cherry	.5	.2	.3	.1	.1	--	3.2
Elm	11.9	6.5	5.4	1.9	1.7	.2	28.5
Other hardwoods	27.1	12.3	14.8	5.3	4.1	1.2	55.2
Noncommercial species	--	--	--	--	--	--	2.0
Total hardwoods	402.9	149.3	253.6	97.9	84.7	13.2	288.4
All species	403.9	149.6	254.3	98.2	84.7	13.5	289.5

WORTH COUNTY

Softwoods:							
Eastern redcedar	0.3	0.1	0.2	0.1	0.1	--	0.1
Total softwoods	.3	.1	.2	.1	.1	--	.1
Hardwoods:							
Select white oaks	24.1	10.2	13.9	5.1	4.2	.9	16.6
Other white oaks	2.1	1.4	.7	.3	.2	.1	1.5
Select red oaks	5.7	1.6	4.1	1.5	1.2	.3	2.6
Red oaks	6.9	3.5	3.4	1.3	.7	.6	4.1
Other red oaks	5.1	2.2	2.9	1.0	.6	.4	4.5
Hickory A	6.9	4.5	2.4	.9	.6	.3	3.1
Hickory B	1.6	1.4	.2	.1	.1	--	.8
Hard maple	.6	.3	.3	.1	.1	--	.7
Soft maple	3.8	1.0	2.8	.9	.8	.1	4.8
Ash	2.3	1.3	1.0	.4	.3	.1	1.7
Sycamore	2.9	.2	2.7	1.1	1.0	.1	.7
Cottonwood	2.8	.2	2.6	1.1	1.0	.1	.8
River birch	1.5	.8	.7	.3	.2	.1	.8
Basswood	.6	.2	.4	.1	--	.1	.7
Black walnut	2.6	1.3	1.3	.5	.4	.1	2.9
Black cherry	.2	.2	--	--	--	--	.7
Elm	2.9	1.7	1.2	.4	.3	.1	5.4
Other hardwoods	2.8	1.8	1.0	.4	.3	.1	5.5
Noncommercial species	--	--	--	--	--	--	.2
Total hardwoods	75.4	33.8	41.6	15.5	12.0	3.5	58.1
All species	75.7	33.9	41.8	15.6	12.1	3.5	58.2

[1/] International 1/4-inch rule.

Table 22.--*Net volume of timber on commercial forest land, by class of timber and softwoods and hardwoods, Prairie, Missouri, 1972*

(Million cubic feet)

CLASS OF TIMBER	ALL SPECIES	SOFTWOODS	HARDWOODS
GROWING STOCK TREES:			
SAW LOG TREES:			
SAW LOG PORTION	344.1	1.8	342.3
UPPER STEM PORTION	168.9	.5	168.4
TOTAL SAWTIMBER	513.0	2.3	510.7
POLETIMBER TREES	409.2	1.2	408.0
TOTAL GROWING STOCK	922.2	3.5	918.7
CULL TREES:			
ROUGH CULL TREES:			
SAWTIMBER	167.2	1.2	166.0
POLETIMBER	320.8	.9	319.9
TOTAL ROUGH CULL	488.0	2.1	485.9
SHORT-LOG CULL TREES			
SAWTIMBER	127.9	--	127.9
POLETIMBER	.1	--	.1
TOTAL SHORT-LOG	128.0	--	128.0
ROTTEN CULL TREES:			
SAWTIMBER	65.3	--	65.3
POLETIMBER	20.3	--	20.3
TOTAL ROTTEN CULL	85.6	--	85.6
TOTAL CULL	701.6	2.1	699.5
SALVABLE DEAD TREES:			
SAWTIMBER	12.6	--	12.6
POLETIMBER	10.9	--	10.9
TOTAL SALVABLE DEAD	23.5	--	23.5
ALL CLASSES	1,647.3	5.6	1,641.7

Table 23.--*Net volume of growing stock, sawtimber, and rough and rotten trees on commercial forest land, by individual species, Prairie, Missouri, 1972*

Species	Growing stock	Sawtimber	Rough and rotten trees
	Million cubic feet	Million board feet[1]	Million cubic feet
Softwoods:			
Eastern redcedar	3.5	14.6	2.1
Total softwoods	3.5	14.6	2.1
Hardwoods:			
Select white oak group			
White oak	188.8	525.9	96.8
Bur oak	16.1	49.8	22.0
Chinkapin oak	11.2	36.5	22.4
Overcup oak	.5	1.1	--
Swamp chestnut oak	.5	1.3	1.8
Swamp white oak	25.8	71.0	23.7
Other white oak group			
Post oak	59.9	102.8	30.4
Select red oak group			
Northern red oak	58.0	201.2	26.3
Shumard oak	.5	1.6	.4
Red oak group			
Black oak	99.0	256.6	55.8
Scarlet oak	2.6	8.3	1.4
Other red oak group			
Blackjack oak	1.7	.8	7.0
Pin oak	42.9	136.0	18.6
Shingle oak	22.2	55.5	26.8
Hickory A group			
Mockernut hickory	6.5	15.2	3.2
Pecan	5.9	15.1	2.2
Shagbark hickory	57.4	100.2	25.2
Shellbark hickory	14.5	40.1	3.4
Hickory B group			
Bitternut hickory	16.4	11.3	8.9
Pignut hickory	8.1	4.1	5.8
Water hickory	--	--	.3
Hard maple group			
Sugar maple	5.3	10.0	7.2
Soft maple group			
Silver maple	44.2	149.0	48.8

(Table 23 continued in next column)

(Table 23 cont.)

Species	Growing stock	Sawtimber	Rough and rotten trees
	Million cubic feet	Million board feet[1]	Million cubic feet
Hardwoods (cont.):			
Ash group			
Green ash	15.1	34.4	7.4
White ash	16.9	32.3	19.8
Sycamore group			
American sycamore	31.4	154.6	8.5
Cottonwood group			
Eastern cottonwood	29.5	137.5	9.0
Birch group			
River birch	17.7	36.2	9.3
Basswood group			
American basswood	5.4	14.9	7.6
Black walnut	37.8	98.0	37.7
Black cherry	2.6	3.6	8.5
Elm group			
American elm	22.5	40.9	52.8
Rock elm	1.2	--	2.9
Slippery elm	9.5	17.2	9.9
Other hardwoods			
Black locust	4.5	.9	7.0
Black willow	9.7	18.1	8.5
Boxelder	.8	2.8	6.7
Butternut	--	--	.5
Common persimmon	.3	--	3.4
Hackberry	15.9	34.9	14.5
Honeylocust	6.7	16.8	24.3
Kentucky coffeetree	3.0	6.9	2.1
Ohio buckeye	--	--	1.0
Osage orange	--	--	11.9
Red mulberry	.2	--	4.4
Sassafras	--	--	.5
Noncommercial	--	--	2.9
Total hardwoods	918.7	2,443.4	699.5
All species	922.2	2,458.0	701.6

[1] International 1/4-inch rule.

Table 24.--*Net volume of growing stock and sawtimber on commercial forest land, by ownership class and species group, Prairie, Missouri, 1972*

GROWING STOCK

OWNERSHIP CLASS	ALL SPECIES	SOFTWOODS	SOFT HARDWOODS	HARD HARDWOODS
	THOUSAND CORDS			
FEDERAL	77.3	--	77.1	0.2
STATE, COUNTY AND MUNICIPAL	53.9	--	3.2	50.7
FOREST INDUSTRY	2.6	--	.5	2.1
FARMER AND MISCELLANEOUS PRIVATE	11,539.8	43.8	2,144.8	9,351.2
ALL OWNERSHIPS	11,673.6	43.8	2,225.6	9,404.2

SAWTIMBER

	MILLION BOARD FEET[1/]			
FEDERAL	27.3	--	27.2	.1
STATE, COUNTY AND MUNICIPAL	7.7	--	.8	6.9
FOREST INDUSTRY	.8	--	.3	.5
FARMER AND MISCELLANEOUS PRIVATE	2,422.2	14.6	552.1	1,855.5
ALL OWNERSHIPS	2,458.0	14.6	580.4	1,863.0

1/ INTERNATIONAL 1/4-INCH RULE.

Table 25.--*Net volume of growing stock on commercial forest land, by species and diameter class, Prairie, Missouri, 1972*

(Thousand cords)

SPECIES	ALL CLASSES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)											
		5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-22.9	23.0-28.9	29.0-38.9	39.0+
SOFTWOODS:													
EASTERN REDCEDAR	43.8	8.3	7.8	15.6	4.0	3.1	5.0	--	--	--	--	--	--
TOTAL SOFTWOODS	43.8	8.3	7.8	15.6	4.0	3.1	5.0	--	--	--	--	--	--
HARDWOODS:													
SELECT WHITE OAKS	3074.5	388.1	424.8	433.3	420.4	522.5	234.9	230.9	131.3	90.1	138.6	57.4	2.2
OTHER WHITE OAKS	758.2	200.9	147.6	144.0	105.6	86.2	45.7	22.4	5.8	--	--	--	--
SELECT RED OAKS	739.6	35.5	80.9	92.9	86.6	82.8	86.5	66.4	32.5	18.3	103.2	54.0	--
RED OAKS	1286.2	157.3	204.8	230.1	152.8	146.8	150.6	90.1	72.0	35.3	37.3	9.1	--
OTHER RED OAKS	846.6	98.0	122.6	104.3	58.7	96.9	95.3	98.9	62.5	26.8	42.8	39.8	--
HICKORY A	1066.4	323.2	154.3	139.4	119.9	108.3	67.7	54.4	36.9	11.2	47.4	3.7	--
HICKORY B	310.2	129.6	86.3	55.7	20.9	13.3	4.4	--	--	--	--	--	--
HARD MAPLE	67.3	13.8	13.7	8.5	4.8	18.9	--	4.2	--	--	--	3.4	--
SOFT MAPLE	560.3	33.4	26.2	80.8	73.5	95.7	79.6	21.9	33.7	47.9	47.5	20.1	--
ASH	404.8	87.9	70.4	68.5	68.5	47.4	28.7	13.8	3.8	8.3	4.2	3.3	--
SYCAMORE	398.0	9.0	10.7	16.6	35.2	42.9	53.6	61.5	33.7	28.3	83.3	15.2	8.0
COTTONWOOD	372.5	3.3	18.0	15.4	22.1	28.7	54.7	44.4	34.1	39.0	57.9	54.9	--
RIVER BIRCH	225.3	43.1	44.6	33.3	23.4	24.6	13.9	13.0	7.9	--	11.0	--	10.5
BASSWOOD	68.2	--	9.6	11.0	18.9	16.7	5.0	7.0	--	--	--	--	--
BLACK WALNUT	479.6	42.2	83.7	89.6	75.4	78.1	62.7	36.7	3.7	7.5	--	--	--
BLACK CHERRY	31.9	3.2	15.0	4.6	3.3	5.8	--	--	--	--	--	--	--
ELM	420.0	94.3	79.6	79.0	47.2	38.2	18.4	19.7	3.3	3.8	36.5	--	--
OTHER HARDWOODS	520.2	96.3	116.8	88.6	63.8	35.7	48.1	14.5	23.4	10.0	23.0	--	--
TOTAL HARDWOODS	11629.8	1759.1	1709.6	1695.6	1401.0	1489.5	1049.8	799.8	484.6	326.5	632.7	260.9	20.7
ALL SPECIES	11673.6	1767.4	1717.4	1711.2	1405.0	1492.6	1054.8	799.8	484.6	326.5	632.7	260.9	20.7

Table 26.--*Net volume of sawtimber on commercial forest land, by species and diameter class, Prairie, Missouri, 1972*

(Million board feet)[1]

SPECIES	ALL CLASSES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)									
		9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-22.9	23.0-28.9	29.0-38.9	39.0+
SOFTWOODS:											
EASTERN REDCEDAR	14.6	7.5	2.7	2.3	2.1	--	--	--	--	--	--
TOTAL SOFTWOODS	14.6	7.5	2.7	2.3	2.1	--	--	--	--	--	--
HARDWOODS:											
SELECT WHITE OAKS	685.6	--	158.2	193.7	87.6	86.4	48.2	34.9	52.6	23.1	.9
OTHER WHITE OAKS	102.8	--	43.6	32.6	16.5	8.0	2.1	--	--	--	--
SELECT RED OAKS	202.8	--	27.9	28.0	31.6	25.2	12.5	7.1	44.6	25.9	--
RED OAKS	264.9	--	54.3	54.8	59.7	36.2	28.8	14.0	13.9	3.2	--
OTHER RED OAKS	192.3	--	20.7	36.8	36.8	38.9	24.0	9.4	14.3	11.4	--
HICKORY A	170.6	--	45.6	37.7	24.4	20.0	14.3	4.6	21.8	2.2	--
HICKORY B	15.4	--	8.4	5.4	1.6	--	--	--	--	--	--
HARD MAPLE	10.0	--	1.0	7.0	--	1.0	--	--	--	1.0	--
SOFT MAPLE	149.0	--	30.7	37.4	29.2	7.1	10.5	14.6	14.2	5.3	--
ASH	66.7	--	22.3	17.4	12.5	6.0	1.7	3.8	1.7	1.3	--
SYCAMORE	154.6	--	15.7	16.4	20.3	26.0	15.0	12.9	36.9	8.6	2.8
COTTONWOOD	137.5	--	7.4	11.1	21.2	17.3	14.5	16.4	25.5	24.1	--
RIVER BIRCH	36.2	--	8.5	8.1	5.2	4.7	4.2	--	3.1	--	2.4
BASSWOOD	14.9	--	5.3	5.4	1.8	2.4	--	--	--	--	--
BLACK WALNUT	98.0	--	26.1	28.9	24.4	14.2	1.7	2.7	--	--	--
BLACK CHERRY	3.6	--	1.3	2.3	--	--	--	--	--	--	--
ELM	58.1	--	15.3	12.5	6.2	7.7	1.2	1.4	13.8	--	--
OTHER HARDWOODS	80.4	--	24.2	14.2	18.9	4.9	8.7	3.2	6.3	--	--
TOTAL HARDWOODS	2,443.4	--	516.5	549.7	397.9	306.0	187.4	125.0	248.7	106.1	6.1
ALL SPECIES	2,458.0	7.5	519.2	552.0	400.0	306.0	187.4	125.0	248.7	106.1	6.1

1/ INTERNATIONAL 1/4-INCH RULE.

Table 27.--*Net volume of growing stock on commercial forest land, by species and forest type, Prairie, Missouri, 1972*

(Million cubic feet)

SPECIES	ALL FOREST TYPES	POST-BLACKJACK OAK	BLACK-SCARLET OAK	WHITE OAK	OAK-GUM-CYPRESS 1/	ELM-ASH-COTTONWOOD	MAPLE-BEECH	NON-STOCKED
SOFTWOODS:								
EASTERN REDCEDAR	3.5	--	2.6	.9	--	--	--	--
TOTAL SOFTWOODS	3.5	--	2.6	.9	--	--	--	--
HARDWOODS:								
SELECT WHITE OAKS	242.9	4.4	45.5	162.8	13.9	5.1	7.6	3.6
OTHER WHITE OAKS	59.9	41.4	14.1	4.4	--	--	--	--
SELECT RED OAKS	58.5	.7	28.3	21.1	1.8	3.3	2.8	.5
RED OAKS	101.6	13.2	63.9	20.7	--	2.6	.5	.7
OTHER RED OAKS	66.8	.8	16.7	3.5	29.2	12.1	2.3	2.2
HICKORY A	84.3	4.7	36.2	20.8	8.7	9.7	1.6	2.6
HICKORY B	24.5	3.0	8.6	6.2	2.1	2.7	1.9	--
HARD MAPLE	5.3	--	--	.5	--	--	4.5	.3
SOFT MAPLE	44.2	--	--	--	1.2	42.8	--	.2
ASH	32.0	.5	2.5	6.5	1.6	18.3	1.8	.8
SYCAMORE	31.4	--	2.1	1.3	.3	26.0	.9	.8
COTTONWOOD	29.5	--	--	2.9	.4	24.3	.8	1.1
RIVER BIRCH	17.7	--	.2	.7	4.0	12.8	--	--
BASSWOOD	5.4	--	.9	.9	.5	2.5	.6	--
BLACK WALNUT	37.8	.2	8.4	10.3	1.1	11.0	3.1	3.7
BLACK CHERRY	2.6	--	1.8	.2	--	.3	--	.3
ELM	33.2	.4	5.3	5.7	2.2	13.7	4.3	1.6
OTHER HARDWOODS	41.1	.6	6.2	5.4	4.9	17.3	3.7	3.0
TOTAL HARDWOODS	918.7	69.9	240.7	273.9	71.9	204.5	36.4	21.4
ALL SPECIES	922.2	69.9	243.3	274.8	71.9	204.5	36.4	21.4

1/ INCLUDES ONLY BOTTOMLAND OAKS--NO GUM OR CYPRESS.

Table 28.--*Net volume of sawtimber on commercial forest land, by species and forest type, Prairie, Missouri, 1972*

(Million board feet)[1]

SPECIES	ALL FOREST TYPES	POST-BLACKJACK OAK	BLACK-SCARLET OAK	WHITE OAK	OAK-GUM-CYPRESS[2]	ELM-ASH-COTTONWOOD	MAPLE-BEECH	NON-STOCKED
SOFTWOODS:								
EASTERN REDCEDAR	14.6	--	11.9	2.7	--	--	--	--
TOTAL SOFTWOODS	14.6	--	11.9	2.7	--	--	--	--
HARDWOODS:								
SELECT WHITE OAKS	685.6	12.8	111.6	471.3	46.3	16.1	22.1	5.4
OTHER WHITE OAKS	102.8	59.1	36.1	7.6	--	--	--	--
SELECT RED OAKS	202.8	1.3	93.8	76.0	9.8	12.0	7.5	2.4
RED OAKS	264.9	29.4	173.3	50.7	--	8.0	1.5	2.0
OTHER RED OAKS	192.3	--	37.2	13.0	90.2	42.5	7.0	2.4
HICKORY A	170.6	7.5	62.8	39.7	19.9	34.4	3.3	3.0
HICKORY B	15.4	1.4	5.3	2.8	1.7	3.0	1.2	--
HARD MAPLE	10.0	--	--	1.3	--	--	7.9	.8
SOFT MAPLE	149.0	--	--	--	4.2	143.6	--	1.2
ASH	66.7	--	3.8	9.8	1.5	42.1	8.2	1.3
SYCAMORE	154.6	--	12.7	7.2	2.2	123.8	4.5	4.2
COTTONWOOD	137.5	--	--	12.9	1.9	114.9	3.8	4.0
RIVER BIRCH	36.2	--	1.0	--	6.9	28.3	--	--
BASSWOOD	14.9	--	2.1	3.2	2.2	5.6	1.8	--
BLACK WALNUT	98.0	.7	24.8	25.3	3.2	30.6	6.0	7.4
BLACK CHERRY	3.6	--	1.2	1.2	--	--	--	1.2
ELM	58.1	--	7.1	13.2	1.4	29.7	3.8	2.9
OTHER HARDWOODS	80.4	1.9	8.9	8.7	12.9	37.4	5.2	5.4
TOTAL HARDWOODS	2,443.4	114.1	581.7	743.9	204.3	672.0	83.8	43.6
ALL SPECIES	2,458.0	114.1	593.6	746.6	204.3	672.0	83.8	43.6

1/ INTERNATIONAL 1/4-INCH RULE.
2/ INCLUDES ONLY BOTTOMLAND OAKS--NO GUM OR CYPRESS.

Table 29.--*Net volume of timber in cull trees on commercial forest land, by species and cull tree class, Prairie, Missouri, 1972*

(Million cubic feet)

SPECIES	ALL CULL TREES	ROUGH TREES	SHORT-LOG TREES 1/	ROTTEN TREES
SOFTWOODS:				
EASTERN REDCEDAR	2.1	2.1	--	--
TOTAL SOFTWOODS	2.1	2.1	--	--
HARDWOODS:				
SELECT WHITE OAKS	166.7	109.5	47.3	9.9
OTHER WHITE OAKS	30.4	22.9	6.0	1.5
SELECT RED OAKS	26.7	13.2	6.4	7.1
RED OAKS	57.2	35.5	13.0	8.7
OTHER RED OAKS	52.4	38.3	9.4	4.7
HICKORY A	34.0	26.3	6.1	1.6
HICKORY B	15.0	13.1	1.4	.5
HARD MAPLE	7.2	5.0	1.2	1.0
SOFT MAPLE	48.8	31.5	9.0	8.3
ASH	27.2	23.7	1.0	2.5
SYCAMORE	8.5	2.7	2.1	3.7
COTTONWOOD	9.0	2.9	1.2	4.9
RIVER BIRCH	9.3	5.1	2.0	2.2
BASSWOOD	7.6	4.9	.4	2.3
BLACK WALNUT	37.7	26.5	7.6	3.6
BLACK CHERRY	8.5	7.4	.5	.6
ELM	65.6	51.7	6.2	7.7
OTHER HARDWOODS	84.8	62.8	7.2	14.8
NONCOMMERCIAL SPECIES	2.9	2.9	--	--
TOTAL HARDWOODS	699.5	485.9	128.0	85.6
ALL SPECIES	701.6	488.0	128.0	85.6

1/ VOLUMES ARE FOR TREES 9.0 INCHES D.B.H. AND LARGER FOR SOFTWOODS AND 11.0 INCHES D.B.H. AND LARGER FOR HARDWOODS. VOLUMES FOR ROUGH AND ROTTEN TREES ARE FOR TREES 5.0 INCHES D.B.H. AND LARGER.

Table 30.--*Net volume of short-log trees on commercial forest land, by species and diameter class, Prairie, Missouri, 1972*

(Million board feet)[1]

SPECIES	ALL CLASSES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)								
		11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-22.9	23.0-28.9	29.0-38.9	39.0+
HARDWOODS:										
SELECT WHITE OAKS	169.3	37.1	33.3	27.7	19.5	14.4	15.1	15.6	6.6	--
OTHER WHITE OAKS	25.4	8.2	10.8	2.6	2.4	.8	.6	--	--	--
SELECT RED OAKS	18.4	2.0	6.8	3.2	2.9	.9	--	1.8	.5	.3
RED OAKS	38.9	20.9	4.4	3.6	1.8	3.9	--	3.6	.7	--
OTHER RED OAKS	28.7	9.3	5.8	2.8	5.1	.8	1.6	3.0	.3	--
HICKORY A	21.3	5.1	5.2	1.7	4.3	--	1.2	3.8	--	--
HICKORY B	4.2	1.7	1.4	1.1	--	--	--	--	--	--
HARD MAPLE	3.2	--	1.3	1.0	--	.9	--	--	--	--
SOFT MAPLE	20.5	2.4	3.4	4.7	2.5	1.7	1.8	3.3	--	.7
ASH	3.2	.9	.9	--	1.4	--	--	--	--	--
SYCAMORE	3.1	--	.6	--	--	--	--	1.4	1.1	--
COTTONWOOD	2.7	--	1.0	--	--	--	--	1.1	.6	--
RIVER BIRCH	6.4	--	4.7	--	--	--	1.7	--	--	--
BASSWOOD	1.4	--	--	.8	--	.6	--	--	--	--
BLACK WALNUT	26.0	7.7	6.6	4.7	3.9	1.1	--	2.0	--	--
BLACK CHERRY	2.0	--	--	2.0	--	--	--	--	--	--
ELM	17.1	7.6	5.2	.8	.8	1.4	--	1.3	--	--
OTHER HARDWOODS	19.1	4.8	4.2	2.6	2.0	1.9	.7	1.6	1.3	--
TOTAL HARDWOODS	410.9	107.7	95.6	59.3	46.6	28.4	22.7	38.5	11.1	1.0

1/ INTERNATIONAL 1/4-INCH RULE.

Table 31.--*Net volume of sawtimber on commercial forest land, by species and log grade class, Prairie, Missouri, 1972*

(Million board feet)[1]

SPECIES	ALL GRADES	LOG GRADE 1	LOG GRADE 2	LOG GRADE 3	TIE AND TIMBER
SOFTWOODS:					
EASTERN REDCEDAR	14.6	--	--	14.4	0.2
TOTAL SOFTWOODS	14.6	--	--	14.4	.2
HARDWOODS:					
SELECT WHITE OAKS	685.6	70.2	177.2	313.8	124.4
OTHER WHITE OAKS	102.8	2.7	15.3	56.5	28.3
SELECT RED OAKS	202.8	39.5	60.4	78.5	24.4
RED OAKS	264.9	17.2	63.3	120.6	63.8
OTHER RED OAKS	192.3	7.2	10.5	44.8	129.8
HICKORY A	170.6	12.1	36.3	77.6	44.6
HICKORY B	15.4	--	3.9	2.7	8.8
HARD MAPLE	10.0	--	.2	4.1	5.7
SOFT MAPLE	149.0	7.3	38.8	86.4	16.5
ASH	66.7	1.3	36.8	28.6	--
SYCAMORE	154.6	54.3	41.2	53.5	5.6
COTTONWOOD	137.5	15.5	24.6	77.6	19.8
RIVER BIRCH	36.2	6.2	10.5	16.7	2.8
BASSWOOD	14.9	--	4.9	8.9	1.1
BLACK WALNUT	98.0	10.9	24.7	62.4	--
BLACK CHERRY	3.6	--	.6	2.4	.6
ELM	58.1	5.0	16.4	25.8	10.9
OTHER HARDWOODS	80.4	10.5	27.8	28.6	13.5
TOTAL HARDWOODS	2,443.4	259.9	593.4	1,089.5	500.6
ALL SPECIES	2,458.0	259.9	593.4	1,103.9	500.8

1/ INTERNATIONAL 1/4-INCH RULE.

Table 32.--*Walnut volume on nonforest land, by diameter class and class of timber, Prairie, Missouri, 1972*

DIAMETER CLASS (INCHES AT BREAST HEIGHT)	GROWING STOCK TREES	SAWTIMBER TREES	ROUGH TREES	SHORT-LOG TREES	ROTTEN TREES
	THOUSAND CUBIC FEET	THOUSAND BOARD FEET1/	THOUSAND CUBIC FEET	THOUSAND BOARD FEET1/	THOUSAND CUBIC FEET
5.0-6.9	591.3	--	1,726.2	--	--
7.0-8.9	1,566.7	--	2,656.4	--	--
9.0-10.9	1,367.8	--	1,372.6	--	--
11.0-12.9	1,117.4	5,663.3	2,730.9	1,793.1	158.7
13.0-14.9	3,152.5	15,253.2	1,575.9	3,856.5	171.9
15.0-16.9	972.6	4,544.2	1,849.8	3,051.3	352.1
17.0-18.9	316.1	1,478.4	276.7	4,478.6	--
19.0-20.9	295.4	1,372.0	305.2	--	224.7
21.0-22.9	284.7	1,316.8	618.6	--	--
23.0-28.9	421.1	1,942.7	326.8	--	321.4
ALL DIAMETERS	10,085.6	31,570.6	13,439.1	13,179.5	1,228.8

1/ INTERNATIONAL 1/4-INCH RULE.

Table 33.--*Net annual growth of growing stock and sawtimber on commercial forest land, by species and county, Prairie, Missouri, 1971*

SPECIES	ALL COUNTIES		ADAIR		ANDREW		ATCHISON		AUDRAIN	
	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER
	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/
SOFTWOODS:										
EASTERN REDCEDAR	1,390	361	34	8	9	2	8	2	14	3
TOTAL SOFTWOODS	1,390	361	34	8	9	2	8	2	14	3
HARDWOODS:										
SELECT WHITE OAKS	59,501	12,914	1,957	363	438	83	471	97	896	184
OTHER WHITE OAKS	19,058	1,256	215	11	48	3	48	3	75	5
SELECT RED OAKS	23,973	6,351	787	178	196	47	194	51	342	94
RED OAKS	37,983	7,840	1,084	196	242	43	221	44	372	68
OTHER RED OAKS	46,325	7,834	1,186	149	388	47	254	35	731	85
HICKORY A	26,050	2,682	779	46	188	11	185	13	341	20
HICKORY B	12,186	434	281	10	70	3	71	4	163	7
HARD MAPLE	1,094	200	31	5	36	7	5	1	15	3
SOFT MAPLE	33,165	6,627	402	75	199	36	456	82	1,048	187
ASH	25,599	3,462	468	43	149	21	204	28	443	62
SYCAMORE	15,736	5,841	256	93	117	42	220	79	473	169
COTTONWOOD	15,031	5,644	215	80	112	44	246	96	580	227
RIVER BIRCH	13,154	1,497	331	27	88	10	148	17	343	39
BASSWOOD	1,633	336	51	11	13	3	19	4	47	9
BLACK WALNUT	16,085	2,659	327	37	108	15	119	18	269	39
BLACK CHERRY	1,346	77	50	2	14	1	13	1	25	1
ELM	2,976	-2,517	26	-87	8	-24	29	-28	39	-67
OTHER HARDWOODS	23,267	2,821	391	33	161	19	203	23	485	53
TOTAL HARDWOODS	374,162	65,958	8,837	1,272	2,575	411	3,106	568	6,687	1,185
ALL SPECIES	375,552	66,319	8,871	1,280	2,584	413	3,114	570	6,701	1,188

(Table 33 cont. on next page)

(Table 33 cont.)

SPECIES	BARTON		BATES		BUCHANAN		CALDWELL		CARROLL	
	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER
	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/
SOFTWOODS:										
EASTERN REDCEDAR	15	5	29	9	8	2	9	2	15	4
TOTAL SOFTWOODS	15	5	29	9	8	2	9	2	15	4
HARDWOODS:										
SELECT WHITE OAKS	419	115	807	232	494	96	506	106	882	188
OTHER WHITE OAKS	362	23	760	49	33	3	33	3	79	6
SELECT RED OAKS	180	49	366	101	221	59	190	58	362	98
RED OAKS	452	110	944	221	221	42	199	38	403	77
OTHER RED OAKS	685	195	1,494	416	522	52	494	49	596	85
HICKORY A	331	69	673	138	197	13	193	12	346	21
HICKORY B	199	6	406	15	105	4	101	4	142	7
HARD MAPLE	--	--	--	--	37	5	17	4	17	4
SOFT MAPLE	508	128	1,173	296	523	95	595	108	943	169
ASH	621	92	1,350	203	253	38	248	35	410	59
SYCAMORE	133	56	299	126	258	92	291	104	437	156
COTTONWOOD	91	24	208	54	258	99	303	118	531	208
RIVER BIRCH	145	19	333	44	230	24	209	26	274	34
BASSWOOD	--	--	--	--	36	7	26	5	40	8
BLACK WALNUT	263	54	505	105	197	30	155	25	231	36
BLACK CHERRY	3	--	7	1	15	1	15	1	26	1
ELM	87	7	191	17	40	-50	22	-39	54	-54
OTHER HARDWOODS	386	56	801	120	316	31	303	34	396	48
TOTAL HARDWOODS	4,865	1,003	10,317	2,138	3,956	641	3,900	691	6,169	1,151
ALL SPECIES	4,880	1,008	10,346	2,147	3,964	643	3,909	693	6,184	1,155

(Table 33 cont. on next page)

(Table 33 cont.)

SPECIES	CASS		CHARITON		CLARK		CLAY		CLINTON	
	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER
	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/
SOFTWOODS:										
EASTERN REDCEDAR	26	8	21	5	39	9	11	3	8	2
TOTAL SOFTWOODS	26	8	21	5	39	9	11	3	8	2
HARDWOODS:										
SELECT WHITE OAKS	700	178	1,305	282	2,036	440	628	117	481	97
OTHER WHITE OAKS	902	61	88	8	185	14	52	3	32	2
SELECT RED OAKS	263	78	496	145	837	226	253	69	182	55
RED OAKS	877	203	493	98	963	201	290	53	198	31
OTHER RED OAKS	729	193	1,033	128	1,198	166	659	62	636	64
HICKORY A	430	83	470	30	736	56	249	14	199	7
HICKORY B	244	6	235	10	271	11	136	5	122	4
HARD MAPLE	--	--	26	4	40	7	22	3	11	2
SOFT MAPLE	214	54	1,622	293	821	158	614	111	844	147
ASH	407	56	659	97	562	73	292	38	312	47
SYCAMORE	67	29	759	272	533	197	297	106	342	121
COTTONWOOD	40	11	886	347	395	152	309	119	507	200
RIVER BIRCH	66	9	496	63	404	47	264	29	241	30
BASSWOOD	--	--	73	14	60	12	38	7	33	6
BLACK WALNUT	337	68	401	64	390	58	207	30	178	28
BLACK CHERRY	7	1	33	2	49	2	20	1	17	1
ELM	58	-5	77	-98	80	-90	23	-60	21	-45
OTHER HARDWOODS	396	58	725	83	543	60	363	36	349	40
TOTAL HARDWOODS	5,737	1,083	9,877	1,842	10,103	1,790	4,716	743	4,705	837
ALL SPECIES	5,763	1,091	9,898	1,847	10,142	1,799	4,727	746	4,713	839

(Table 33 cont. on next page)

(Table 33 cont.)

SPECIES	COOPER		DADE		DAVIESS		DEKALB		GENTRY	
	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER
	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/
SOFTWOODS:										
EASTERN REDCEDAR	46	13	48	16	25	5	9	2	15	3
TOTAL SOFTWOODS	46	13	48	16	25	5	9	2	15	3
HARDWOODS:										
SELECT WHITE OAKS	1,031	272	731	182	1,280	259	430	92	783	151
OTHER WHITE OAKS	1,554	100	1,084	67	128	8	32	3	78	5
SELECT RED OAKS	395	111	276	73	542	133	170	48	337	85
RED OAKS	1,464	307	1,012	210	674	133	181	36	437	81
OTHER RED OAKS	946	229	729	160	746	98	352	44	613	69
HICKORY A	657	108	488	74	483	31	157	10	330	21
HICKORY B	392	12	342	9	172	7	68	3	132	5
HARD MAPLE	--	--	--	--	30	5	20	4	41	9
SOFT MAPLE	340	88	247	61	354	67	289	52	344	63
ASH	511	79	430	56	316	38	147	20	248	26
SYCAMORE	96	42	67	28	237	88	156	56	199	71
COTTONWOOD	62	17	38	10	199	76	161	63	173	65
RIVER BIRCH	96	14	65	9	183	21	135	13	206	19
BASSWOOD	--	--	--	--	36	8	16	3	28	6
BLACK WALNUT	447	93	347	68	229	32	99	15	179	24
BLACK CHERRY	15	2	10	1	32	1	14	1	23	1
ELM	67	-14	50	-13	39	-57	14	-25	13	-48
OTHER HARDWOODS	518	82	397	56	296	30	179	22	298	30
TOTAL HARDWOODS	8,591	1,542	6,313	1,051	5,976	978	2,620	460	4,462	683
ALL SPECIES	8,637	1,555	6,361	1,067	6,001	983	2,629	462	4,477	686

(Table 33 cont. on next page)

(Table 33 cont.)

SPECIES	GREENE		GRUNDY		HARRISON		HENRY		HOLT	
	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER
	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/
SOFTWOODS:										
EASTERN REDCEDAR	69	21	15	3	31	7	26	8	9	2
TOTAL SOFTWOODS	69	21	15	3	31	7	26	8	9	2
HARDWOODS:										
SELECT WHITE OAKS	1,155	291	829	183	1,699	346	637	176	479	91
OTHER WHITE OAKS	1,781	110	73	6	156	11	706	47	47	2
SELECT RED OAKS	427	116	340	96	675	177	283	77	195	48
RED OAKS	1,641	339	362	78	819	161	791	182	236	41
OTHER RED OAKS	1,037	227	524	66	1,160	142	1,072	288	574	49
HICKORY A	750	113	289	23	634	41	495	96	200	12
HICKORY B	495	14	114	5	257	10	328	10	99	3
HARD MAPLE	--	--	47	10	29	6	--	--	18	3
SOFT MAPLE	301	77	515	95	869	158	774	191	409	75
ASH	536	72	277	39	513	64	1,027	138	224	34
SYCAMORE	80	34	296	107	464	169	200	83	203	73
COTTONWOOD	46	12	275	107	485	189	127	33	216	83
RIVER BIRCH	78	11	186	23	365	42	214	27	175	19
BASSWOOD	--	--	29	6	54	11	--	--	24	5
BLACK WALNUT	520	102	204	34	331	47	394	79	176	21
BLACK CHERRY	17	2	20	1	43	2	7	1	14	1
ELM	62	-24	29	-46	48	-85	135	8	17	-38
OTHER HARDWOODS	566	82	347	40	507	55	600	86	272	24
TOTAL HARDWOODS	9,492	1,578	4,756	873	9,108	1,546	7,790	1,522	3,578	546
ALL SPECIES	9,561	1,599	4,771	876	9,139	1,553	7,816	1,530	3,587	548

(Table 33 cont. on next page)

(Table 33 cont.)

SPECIES	JACKSON		JASPER		JOHNSON		KNOX		LAFAYETTE	
	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER
	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/
SOFTWOODS:										
EASTERN REDCEDAR	32	12	29	9	53	18	24	6	15	5
TOTAL SOFTWOODS	32	12	29	9	53	18	24	6	15	5
HARDWOODS:										
SELECT WHITE OAKS	313	74	870	240	897	235	1,274	263	385	109
OTHER WHITE OAKS	373	22	985	69	1,122	73	126	8	375	26
SELECT RED OAKS	119	31	348	103	343	96	517	135	164	47
RED OAKS	389	86	1,042	245	1,126	247	639	127	444	103
OTHER RED OAKS	502	109	1,175	329	1,116	280	765	105	621	174
HICKORY A	245	39	617	123	634	110	478	33	292	60
HICKORY B	209	4	350	11	443	12	175	7	177	6
HARD MAPLE	--	--	--	--	--	--	22	4	--	--
SOFT MAPLE	212	52	636	160	567	140	579	105	439	112
ASH	337	40	838	125	826	112	367	44	492	79
SYCAMORE	53	21	171	72	148	61	311	113	115	50
COTTONWOOD	32	8	114	30	92	24	321	124	83	22
RIVER BIRCH	57	7	185	26	156	20	308	27	129	18
BASSWOOD	--	--	--	--	--	--	37	7	--	--
BLACK WALNUT	186	34	480	98	477	93	233	32	211	46
BLACK CHERRY	3	--	9	1	10	1	33	2	3	1
ELM	40	-5	130	9	103	-5	45	-55	68	3
OTHER HARDWOODS	247	32	615	95	603	86	334	37	327	51
TOTAL HARDWOODS	3,317	554	8,565	1,736	8,663	1,585	6,564	1,118	4,325	907
ALL SPECIES	3,349	566	8,594	1,745	8,716	1,603	6,588	1,124	4,340	912

(Table 33 cont. on next page)

(Table 33 cont.)

SPECIES	LAWRENCE		LEWIS		LINCOLN		LINN		LIVINGSTON	
	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER
	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/
SOFTWOODS:										
EASTERN REDCEDAR	52	16	34	8	57	13	12	3	14	3
TOTAL SOFTWOODS	52	16	34	8	57	13	12	3	14	3
HARDWOODS:										
SELECT WHITE OAKS	1,150	307	1,962	409	3,262	669	782	171	775	158
OTHER WHITE OAKS	1,616	112	195	13	322	20	57	5	58	4
SELECT RED OAKS	401	121	782	205	1,299	337	315	92	325	88
RED OAKS	1,513	329	947	193	1,593	316	320	66	353	64
OTHER RED OAKS	986	253	1,081	145	1,864	245	676	62	706	66
HICKORY A	677	117	698	50	1,192	79	285	18	314	19
HICKORY B	433	11	255	10	453	17	154	6	154	6
HARD MAPLE	--	--	32	7	45	8	18	3	37	7
SOFT MAPLE	206	53	668	126	1,354	249	1,015	180	900	162
ASH	427	66	489	59	877	106	405	58	395	57
SYCAMORE	67	29	423	157	768	282	464	167	432	155
COTTONWOOD	38	10	371	143	781	304	584	228	499	195
RIVER BIRCH	63	10	297	36	537	66	271	36	260	35
BASSWOOD	--	--	52	11	93	20	52	10	46	9
BLACK WALNUT	466	97	337	48	566	82	297	44	277	40
BLACK CHERRY	14	2	41	1	74	3	19	1	23	1
ELM	54	-13	45	-81	78	-145	26	-73	23	-71
OTHER HARDWOODS	503	82	479	50	830	91	548	56	509	54
TOTAL HARDWOODS	8,614	1,586	9,154	1,582	15,988	2,749	6,288	1,130	6,086	1,049
ALL SPECIES	8,666	1,602	9,188	1,590	16,045	2,762	6,300	1,133	6,100	1,052

(Table 33 cont. on next page)

(Table 33 cont.)

SPECIES	MACON		MARION		MERCER		MONROE		NODAWAY	
	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER
	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/
SOFTWOODS:										
EASTERN REDCEDAR	45	10	30	7	22	5	34	7	14	3
TOTAL SOFTWOODS	45	10	30	7	22	5	34	7	14	3
HARDWOODS:										
SELECT WHITE OAKS	2,538	504	1,787	354	1,117	234	1,930	406	735	150
OTHER WHITE OAKS	254	15	190	11	106	8	176	13	57	4
SELECT RED OAKS	1,032	260	722	177	461	122	754	202	308	81
RED OAKS	1,326	259	906	175	555	114	872	180	347	64
OTHER RED OAKS	1,625	208	948	127	664	86	1,153	149	675	72
HICKORY A	962	64	660	42	412	30	680	49	285	16
HICKORY B	354	13	239	9	150	6	266	10	132	5
HARD MAPLE	35	7	37	6	36	8	29	5	21	3
SOFT MAPLE	714	135	517	97	329	61	967	180	612	109
ASH	658	70	425	49	264	31	565	73	307	44
SYCAMORE	449	164	327	121	226	84	552	202	288	103
COTTONWOOD	340	127	307	119	191	74	514	199	350	136
RIVER BIRCH	516	45	199	28	174	19	413	47	236	25
BASSWOOD	69	14	48	11	30	7	62	13	34	7
BLACK WALNUT	451	53	289	42	186	27	390	57	219	28
BLACK CHERRY	62	3	39	1	27	1	44	2	23	1
ELM	68	-109	34	-78	20	-48	59	-95	24	-51
OTHER HARDWOODS	582	54	387	41	291	33	594	63	347	35
TOTAL HARDWOODS	12,035	1,886	8,061	1,332	5,239	897	10,020	1,755	5,000	832
ALL SPECIES	12,080	1,896	8,091	1,339	5,261	902	10,054	1,762	5,014	835

(Table 33 cont. on next page)

(Table 33 cont.)

SPECIES	PETTIS		PIKE		PLATTE		PUTNAM		RALLS	
	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER
	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/
SOFTWOODS:										
EASTERN REDCEDAR	30	7	68	15	15	4	30	7	36	8
TOTAL SOFTWOODS	30	7	68	15	15	4	30	7	36	8
HARDWOODS:										
SELECT WHITE OAKS	844	225	3,733	772	872	140	1,586	323	1,963	412
OTHER WHITE OAKS	1,183	75	357	24	81	4	154	10	179	13
SELECT RED OAKS	330	92	1,517	390	397	87	649	163	779	207
RED OAKS	1,149	244	1,844	365	514	84	804	159	903	190
OTHER RED OAKS	875	225	2,131	294	845	96	911	130	1,080	147
HICKORY A	558	97	1,375	92	395	20	593	39	680	50
HICKORY B	321	12	504	20	173	6	208	9	244	9
HARD MAPLE	--	--	62	11	69	9	26	5	35	6
SOFT MAPLE	435	111	1,519	281	514	90	501	94	626	119
ASH	604	87	1,017	128	352	41	408	47	466	59
SYCAMORE	111	47	884	325	235	81	320	118	416	155
COTTONWOOD	73	19	853	332	253	95	259	99	330	127
RIVER BIRCH	119	17	641	76	376	25	312	29	325	37
BASSWOOD	--	--	104	22	49	10	41	9	52	11
BLACK WALNUT	395	80	659	96	273	36	275	36	332	50
BLACK CHERRY	12	1	89	3	31	2	40	2	44	2
ELM	73	-10	118	-160	43	-78	48	-66	64	-79
OTHER HARDWOODS	499	77	914	102	393	36	362	38	443	48
TOTAL HARDWOODS	7,581	1,399	18,321	3,173	5,865	784	7,497	1,244	8,961	1,563
ALL SPECIES	7,611	1,406	18,389	3,188	5,880	788	7,527	1,251	8,997	1,571

(Table 33 cont. on next page)

(Table 33 cont.)

SPECIES	RANDOLPH		RAY		SALINE		SCHUYLER		SCOTLAND	
	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER
	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/
SOFTWOODS:										
EASTERN REDCEDAR	39	8	21	5	26	8	10	2	14	3
TOTAL SOFTWOODS	39	8	21	5	26	8	10	2	14	3
HARDWOODS:										
SELECT WHITE OAKS	2,131	433	1,198	215	555	150	461	98	780	173
OTHER WHITE OAKS	218	14	108	6	715	48	49	3	58	5
SELECT RED OAKS	836	214	484	113	228	64	197	48	305	88
RED OAKS	1,037	210	619	107	725	161	242	46	321	70
OTHER RED OAKS	1,118	159	966	114	748	192	232	36	481	72
HICKORY A	759	53	496	27	393	71	180	11	260	19
HICKORY B	262	10	208	8	262	8	56	3	104	4
HARD MAPLE	29	6	34	4	--	--	10	2	15	3
SOFT MAPLE	498	94	725	130	428	107	198	36	516	95
ASH	467	50	441	48	587	82	137	17	267	37
SYCAMORE	340	126	345	121	113	48	111	40	270	98
COTTONWOOD	273	104	364	138	73	19	111	43	265	102
RIVER BIRCH	365	31	419	34	120	16	73	8	245	23
BASSWOOD	49	11	54	11	--	--	14	3	28	5
BLACK WALNUT	314	42	307	40	292	59	89	13	174	26
BLACK CHERRY	50	3	39	3	6	1	14	1	19	2
ELM	49	-78	38	-87	73	-3	17	-21	42	-37
OTHER HARDWOODS	392	41	467	43	412	61	126	14	253	29
TOTAL HARDWOODS	9,187	1,523	7,312	1,075	5,730	1,084	2,317	401	4,403	814
ALL SPECIES	9,226	1,531	7,333	1,080	5,756	1,092	2,327	403	4,417	817

(Table 33 cont. on next page)

(Table 33 cont.)

SPECIES	SHELBY		SULLIVAN		VERNON		WORTH	
	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER	GROWING STOCK	SAW-TIMBER
	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/	CORDS	THOUSAND BD.FT.1/
SOFTWOODS:								
EASTERN REDCEDAR	26	6	27	6	34	11	8	2
TOTAL SOFTWOODS	26	6	27	6	34	11	8	2
HARDWOODS:								
SELECT WHITE OAKS	1,427	313	1,395	301	1,256	363	449	92
OTHER WHITE OAKS	128	10	131	10	1,087	75	47	3
SELECT RED OAKS	560	158	583	157	524	153	185	48
RED OAKS	626	135	671	138	1,355	327	225	43
OTHER RED OAKS	798	113	877	116	2,038	594	310	38
HICKORY A	487	37	518	37	955	207	170	11
HICKORY B	179	7	193	8	516	20	67	3
HARD MAPLE	25	6	28	6	--	--	7	2
SOFT MAPLE	676	127	679	128	1,517	388	214	40
ASH	395	53	423	57	1,620	268	136	17
SYCAMORE	404	149	405	149	386	165	122	45
COTTONWOOD	349	136	351	136	283	73	114	44
RIVER BIRCH	274	34	275	34	441	61	93	11
BASSWOOD	39	8	43	9	--	--	14	3
BLACK WALNUT	254	40	287	41	669	145	87	12
BLACK CHERRY	31	2	36	2	10	2	12	1
ELM	56	-56	57	-64	241	26	11	-22
OTHER HARDWOODS	388	45	420	46	1,069	165	135	15
TOTAL HARDWOODS	7,096	1,317	7,372	1,311	13,967	3,032	2,398	406
ALL SPECIES	7,122	1,323	7,399	1,317	14,001	3,043	2,406	408

1/ INTERNATIONAL 1/4-INCH RULE.

Table 34.--*Timber removals from growing stock and sawtimber on commercial forest land, by item and species group, Prairie, Missouri, 1971*[1]

ITEM	GROWING STOCK				SAWTIMBER			
	ALL SPECIES	SOFTWOODS	SOFT HARDWOODS	HARD HARDWOODS	ALL SPECIES	SOFTWOODS	SOFT HARDWOODS	HARD HARDWOODS
	CORDS				THOUSAND BOARD FEET[2]			
ROUNDWOOD PRODUCTS:								
SAWLOGS	66,405	25	38,506	27,874	30,411	11	19,312	11,088
COOPERAGE LOGS	17,379	--	--	17,379	8,261	--	--	8,261
VENEER LOGS	4,532	--	89	4,443	1,697	--	34	1,663
CHARCOAL WOOD	418	--	--	418	51	--	--	51
PULPWOOD	12,684	--	9,051	3,633	4,399	--	3,130	1,269
POSTS	1,532	--	--	1,532	382	--	--	382
FUELWOOD	15,988	--	1,950	14,038	3,112	--	358	2,754
MISCELLANEOUS[3]	4,569	--	4,303	266	1,969	--	1,855	114
ALL PRODUCTS	123,507	25	53,899	69,583	50,282	11	24,689	25,582
LOGGING RESIDUES	18,014	--	5,554	12,460	2,472	--	882	1,590
OTHER REMOVALS	447,114	--	132,178	314,936	98,246	--	29,271	68,975
TOTAL REMOVALS	588,635	25	191,631	396,979	151,000	11	54,842	96,147

1/ SEE GLOSSARY FOR TIMBER REMOVALS FROM GROWING STOCK (PAGE 5).
2/ INTERNATIONAL 1/4-INCH RULE.
3/ INCLUDES SHAVING WOOD, HEADING BOLTS, ETC.

Table 35.--*Timber removals from growing stock and sawtimber on commercial forest land, by species and county, Prairie, Missouri, 1971*[1]

Species	All counties		Adair		Andrew		Atchison		Audrain	
	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber
	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/
Softwoods:										
Eastern redcedar	25	11	--	--	--	--	--	--	--	--
Total softwoods	25	11	--	--	--	--	--	--	--	--
Hardwoods:										
Select white oaks	144,136	36,306	4,608	1,106	1,413	379	973	217	2,072	513
Other white oaks	36,341	7,864	830	147	188	29	196	44	303	73
Select red oaks	39,859	9,333	1,176	242	326	72	297	66	621	156
Red oaks	38,409	8,756	233	47	72	16	53	11	135	37
Other red oaks	30,696	6,778	844	168	275	59	238	59	601	143
Hickory A	40,079	9,403	1,143	214	261	56	265	71	619	176
Hickory B	8,266	1,801	198	38	49	12	49	12	108	25
Hard maple	5,230	1,282	135	30	108	36	47	16	88	20
Soft maple	45,167	15,238	752	280	501	193	298	67	1,115	344
Ash	18,614	4,466	260	52	126	40	132	33	420	122
Sycamore	20,691	6,475	436	169	278	111	109	24	545	206
Cottonwood	35,926	12,039	271	71	338	127	205	46	1,600	624
River birch	6,181	1,484	91	17	25	5	39	10	121	31
Basswood	365	190	--	--	38	22	--	--	13	9
Black walnut	13,282	4,712	177	62	494	175	38	16	241	85
Black cherry	--	3	--	--	--	--	--	--	--	--
Elm	89,484	20,897	2,403	488	801	199	917	225	2,300	584
Other hardwoods	15,884	3,962	46	14	98	43	23	7	23	7
Total hardwoods	588,610	150,989	13,603	3,145	5,391	1,574	3,879	924	10,925	3,155
All species	588,635	151,000	13,603	3,145	5,391	1,574	3,879	924	10,925	3,155

(Table 35 cont. on next page)

(Table 35 cont.)

Species	Barton		Bates		Buchanan		Caldwell		Carroll	
	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber
	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/
Softwoods:										
Eastern redcedar	--	--	25	10	--	--	--	--	--	--
Total softwoods	--	--	25	10	--	--	--	--	--	--
Hardwoods:										
Select white oaks	779	175	1,722	419	1,583	416	1,473	382	1,871	425
Other white oaks	446	92	951	194	134	29	134	29	321	73
Select red oaks	316	76	1,074	284	376	83	358	87	714	178
Red oaks	1,055	261	3,045	788	77	19	75	18	174	47
Other red oaks	292	66	634	144	380	84	371	84	536	133
Hickory A	444	111	1,068	269	314	81	340	92	689	189
Hickory B	114	32	240	64	67	12	64	13	99	25
Hard maple	--	--	--	--	141	26	80	26	106	28
Soft maple	350	85	1,007	287	791	266	1,558	629	1,489	458
Ash	396	87	959	229	197	56	248	71	282	67
Sycamore	393	96	1,510	503	347	126	350	122	334	99
Cottonwood	171	37	1,253	473	949	316	383	110	2,300	773
River birch	170	32	427	99	61	12	62	16	131	42
Basswood	--	--	25	9	25	12	38	16	--	--
Black walnut	76	28	38	16	557	197	785	280	241	83
Black cherry	--	--	--	--	--	--	--	--	--	--
Elm	539	147	1,164	308	1,900	418	1,330	356	2,021	552
Other hardwoods	595	124	1,372	336	153	60	128	50	120	44
Total hardwoods	6,136	1,449	16,489	4,422	8,052	2,213	7,777	2,381	11,428	3,216
All species	6,136	1,449	16,514	4,432	8,052	2,213	7,777	2,381	11,428	3,216

(Table 35 cont. on next page)

(Table 35 cont.)

Species	Cass		Chariton		Clark		Clay		Clinton	
	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber
	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/
Softwoods:										
Eastern redcedar	--	--	--	--	--	--	--	--	--	--
Total softwoods	--	--	--	--	--	--	--	--	--	--
Hardwoods:										
Select white oaks	1,176	260	3,051	783	6,524	1,826	1,383	325	1,361	362
Other white oaks	1,123	245	375	103	767	191	205	44	125	29
Select red oaks	424	103	974	246	1,704	435	421	100	331	78
Red oaks	1,917	440	220	60	425	119	83	22	70	16
Other red oaks	320	66	894	222	944	218	468	99	468	104
Hickory A	657	165	771	223	1,462	381	417	110	285	72
Hickory B	168	32	157	38	195	50	87	13	76	12
Hard maple	25	8	180	35	207	54	107	15	81	16
Soft maple	405	159	1,522	443	1,555	580	443	105	1,029	342
Ash	498	130	461	116	357	82	196	46	244	66
Sycamore	652	261	548	160	279	69	151	37	391	133
Cottonwood	194	70	1,805	650	1,091	390	751	255	958	314
River birch	81	21	161	42	171	53	75	17	76	17
Basswood	--	--	--	--	25	11	--	--	25	16
Black walnut	342	119	203	74	342	123	51	21	506	179
Black cherry	--	--	--	--	--	--	--	--	--	--
Elm	622	175	3,353	817	2,892	650	1,728	376	1,786	461
Other hardwoods	717	175	84	32	104	24	54	15	130	48
Total hardwoods	9,321	2,429	14,759	4,044	19,044	5,256	6,620	1,600	7,942	2,265
All species	9,321	2,429	14,759	4,044	19,044	5,256	6,620	1,600	7,942	2,265

(Table 35 cont. on next page)

(Table 35 cont.)

Species	Cooper		Dade		Daviess		DeKalb		Gentry	
	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber
	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/
Softwoods:										
Eastern redcedar	--	--	--	--	--	--	--	--	--	--
Total softwoods	--	--	--	--	--	--	--	--	--	--
Hardwoods:										
Select white oaks	3,595	1,128	1,319	265	2,857	665	1,223	328	1,904	414
Other white oaks	1,968	403	1,360	270	509	117	134	44	312	59
Select red oaks	459	101	520	120	813	181	290	68	598	134
Red oaks	2,600	525	2,253	472	148	34	54	13	143	34
Other red oaks	411	79	312	53	555	124	270	59	463	89
Hickory A	895	178	652	112	667	135	247	70	479	98
Hickory B	287	53	230	42	125	25	46	12	90	25
Hard maple	25	9	--	--	135	27	81	26	141	47
Soft maple	946	350	180	48	1,539	653	495	184	761	297
Ash	487	118	295	50	252	67	104	29	197	54
Sycamore	1,371	522	184	46	322	117	93	26	344	134
Cottonwood	616	201	74	16	307	91	327	119	320	103
River birch	129	33	81	19	52	13	32	7	50	10
Basswood	--	--	--	--	25	12	--	3	25	12
Black walnut	253	90	443	157	481	169	190	65	646	227
Black cherry	--	--	--	--	--	--	--	--	--	--
Elm	599	123	501	108	1,832	428	746	191	1,330	313
Other hardwoods	845	194	619	116	130	54	34	15	154	55
Total hardwoods	15,486	4,107	9,023	1,894	10,749	2,912	4,366	1,259	7,957	2,105
All species	15,486	4,107	9,023	1,894	10,749	2,912	4,366	1,259	7,957	2,105

(Table 35 cont. on next page)

(Table 35 cont.)

Species	Greene		Grundy		Harrison		Henry		Holt	
	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber
	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/
Softwoods:										
Eastern redcedar	--	--	--	--	--	--	--	--	--	--
Total softwoods	--	--	--	--	--	--	--	--	--	--
Hardwoods:										
Select white oaks	2,952	665	1,762	414	3,588	813	1,106	262	1,356	337
Other white oaks	2,232	444	303	73	633	147	888	183	178	29
Select red oaks	680	150	520	123	1,056	239	483	120	336	73
Red oaks	3,331	679	81	21	189	44	1,753	418	72	17
Other red oaks	447	78	431	104	866	188	455	99	348	74
Hickory A	1,028	179	427	119	890	201	687	167	295	72
Hickory B	349	64	81	25	177	38	197	42	64	12
Hard maple	--	3	162	57	180	41	--	--	81	26
Soft maple	186	43	1,070	408	915	284	626	161	638	218
Ash	437	80	214	55	353	85	703	160	187	54
Sycamore	341	105	164	37	438	141	970	316	310	113
Cottonwood	92	21	276	62	532	141	353	89	308	89
River birch	94	19	53	13	103	24	264	59	50	10
Basswood	--	3	--	--	25	12	--	--	25	12
Black walnut	380	134	63	22	633	228	89	30	468	165
Black cherry	--	--	--	--	--	--	--	--	--	--
Elm	704	130	1,375	301	2,670	622	771	171	1,328	279
Other hardwoods	912	177	55	23	126	52	900	192	102	46
Total hardwoods	14,165	2,974	7,037	1,857	13,374	3,300	10,245	2,469	6,146	1,626
All species	14,165	2,974	7,037	1,857	13,374	3,300	10,245	2,469	6,146	1,626

(Table 35 cont. on next page)

(Table 35 cont.)

Species	Jackson		Jasper		Johnson		Knox		Lafayette	
	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber
	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/
Softwoods:										
Eastern redcedar	--	--	--	--	--	--	--	--	--	--
Total softwoods	--	--	--	--	--	--	--	--	--	--
Hardwoods:										
Select white oaks	1,681	390	1,727	363	1,325	287	2,926	707	652	151
Other white oaks	452	87	1,255	280	1,407	291	509	117	475	107
Select red oaks	200	41	740	188	350	74	823	190	205	51
Red oaks	855	180	2,629	635	1,938	403	158	38	836	201
Other red oaks	211	36	509	114	479	96	596	133	268	60
Hickory A	437	86	829	186	812	169	750	181	447	118
Hickory B	121	21	230	53	280	53	122	25	107	21
Hard maple	25	8	--	2	25	9	95	20	13	6
Soft maple	881	373	511	145	870	281	948	338	476	149
Ash	259	49	703	176	547	106	220	52	396	93
Sycamore	276	100	816	268	513	132	170	43	372	91
Cottonwood	1,415	583	221	47	1,026	370	454	139	615	185
River birch	67	13	219	45	196	42	120	40	152	32
Basswood	--	--	--	--	--	--	--	--	--	--
Black walnut	570	200	114	42	127	45	190	65	127	48
Black cherry	--	--	--	--	--	--	--	--	--	--
Elm	614	164	919	237	669	134	1,918	494	561	148
Other hardwoods	545	131	953	207	963	206	42	13	578	143
Total hardwoods	8,609	2,462	12,375	2,988	11,527	2,698	10,041	2,595	6,280	1,604
All species	8,609	2,462	12,375	2,988	11,527	2,698	10,041	2,595	6,280	1,604

(Table 35 cont. on next page)

(Table 35 cont.)

Species	Lawrence		Lewis		Lincoln		Linn		Livingston	
	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber
	Cords	Thousand bd. ft.[2/]	Cords	Thousand bd. ft.[2/]	Cords	Thousand bd. ft.[2/]	Cords	Thousand bd. ft.[2/]	Cords	Thousand bd. ft.[2/]
Softwoods:										
Eastern redcedar	--	--	--	--	--	--	--	--	--	--
Total softwoods	--	--	--	--	--	--	--	--	--	--
Hardwoods:										
Select white oaks	2,754	622	5,741	1,612	7,994	2,022	2,561	772	1,852	451
Other white oaks	2,061	459	785	176	1,294	279	241	73	232	59
Select red oaks	683	156	1,369	327	2,226	521	499	122	499	117
Red oaks	3,190	667	295	75	471	115	84	23	89	21
Other red oaks	439	88	844	193	1,462	326	541	133	546	124
Hickory A	889	177	1,188	293	1,672	358	448	131	470	124
Hickory B	310	53	183	38	320	75	102	25	102	25
Hard maple	--	--	149	31	228	41	114	27	153	40
Soft maple	132	35	1,006	356	1,905	655	1,472	526	1,702	634
Ash	329	62	298	71	552	130	330	89	323	88
Sycamore	239	69	263	73	386	91	237	52	235	51
Cottonwood	80	21	723	248	1,825	683	531	123	539	129
River birch	76	19	112	33	163	36	91	21	98	24
Basswood	--	--	--	--	--	--	--	--	13	4
Black walnut	304	111	241	84	278	97	228	81	101	38
Black cherry	--	--	--	--	--	--	--	--	--	--
Elm	574	125	2,518	604	4,356	1,016	2,215	510	2,039	453
Other hardwoods	843	184	24	9	80	16	49	24	62	29
Total hardwoods	12,903	2,848	15,739	4,223	25,212	6,461	9,743	2,732	9,055	2,411
All species	12,903	2,848	15,739	4,223	25,212	6,461	9,743	2,732	9,055	2,411

(Table 35 cont. on next page)

(Table 35 cont.)

Species	Macon		Marion		Mercer		Monroe		Nodaway	
	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber
	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/
Softwoods:										
Eastern redcedar	--	--	--	--	--	--	--	--	--	--
Total softwoods	--	--	--	--	--	--	--	--	--	--
Hardwoods:										
Select white oaks	6,233	1,587	4,220	1,008	2,250	517	4,199	1,032	1,589	350
Other white oaks	1,008	205	749	147	428	103	723	176	232	59
Select red oaks	1,563	344	1,346	313	679	157	1,184	275	484	102
Red oaks	289	64	326	82	109	26	207	50	90	19
Other red oaks	1,164	247	734	163	513	109	917	212	477	109
Hickory A	1,455	303	1,030	220	574	129	1,133	287	419	100
Hickory B	250	50	172	38	108	25	189	38	87	25
Hard maple	169	41	206	53	141	46	142	31	94	26
Soft maple	793	240	887	325	229	51	923	272	469	116
Ash	387	81	288	72	156	37	352	83	183	42
Sycamore	239	54	239	67	113	26	328	91	149	32
Cottonwood	375	89	1,333	553	169	40	577	151	324	72
River birch	132	27	107	34	48	10	112	26	62	14
Basswood	--	--	--	3	--	--	--	--	--	3
Black walnut	253	90	203	71	38	14	139	45	76	28
Black cherry	--	--	--	3	--	--	--	--	--	--
Elm	3,259	702	2,299	518	1,331	310	2,889	683	1,642	348
Other hardwoods	55	14	45	8	28	9	29	8	80	22
Total hardwoods	17,624	4,138	14,184	3,678	6,914	1,609	14,043	3,460	6,457	1,467
All species	17,624	4,138	14,184	3,678	6,914	1,609	14,043	3,460	6,457	1,467

(Table 35 cont. on next page)

(Table 35 cont.)

Species	Pettis		Pike		Platte		Putnam		Ralls	
	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber
	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/
Softwoods:										
Eastern redcedar	--	--	--	--	--	--	--	--	--	--
Total softwoods	--	--	--	--	--	--	--	--	--	--
Hardwoods:										
Select white oaks	1,399	308	11,254	3,202	2,003	423	3,208	742	5,453	1,538
Other white oaks	1,496	301	1,445	323	303	44	625	132	732	176
Select red oaks	460	105	2,399	542	561	111	982	224	1,222	283
Red oaks	2,210	464	453	104	115	25	178	43	210	51
Other red oaks	379	78	1,673	380	614	119	715	158	825	183
Hickory A	746	151	2,069	461	553	112	837	176	1,073	263
Hickory B	228	53	361	88	113	25	148	38	177	38
Hard maple	25	9	283	61	234	49	140	28	155	31
Soft maple	1,494	565	1,795	583	764	258	551	169	781	255
Ash	778	219	693	172	238	58	265	60	271	61
Sycamore	710	250	518	132	341	121	186	49	245	68
Cottonwood	673	215	1,381	461	885	283	373	112	447	131
River birch	168	40	183	45	75	14	82	26	112	32
Basswood	--	--	--	--	25	12	13	9	--	--
Black walnut	152	50	316	115	506	179	127	48	215	79
Black cherry	--	--	--	--	--	--	--	--	--	--
Elm	558	119	5,081	1,178	2,427	463	2,085	504	2,500	575
Other hardwoods	998	258	85	18	146	57	57	25	23	7
Total hardwoods	12,474	3,185	29,989	7,865	9,903	2,353	10,572	2,543	14,441	3,771
All species	12,474	3,185	29,989	7,865	9,903	2,353	10,572	2,543	14,441	3,771

(Table 35 cont. on next page)

(Table 35 cont.)

Species	Randolph		Ray		Saline		Schuyler		Scotland	
	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber
	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/
Softwoods:										
Eastern redcedar	--	--	--	--	--	--	--	--	--	--
All softwoods	--	--	--	--	--	--	--	--	--	--
Hardwoods:										
Select white oaks	5,172	1,345	2,679	591	1,077	272	1,176	291	2,430	676
Other white oaks	874	191	419	73	908	189	187	44	250	73
Select red oaks	1,230	282	786	171	331	77	297	71	782	224
Red oaks	202	48	171	38	1,440	320	56	14	228	70
Other red oaks	857	188	734	153	320	66	202	49	408	99
Hickory A	1,095	241	798	173	570	124	276	66	700	209
Hickory B	192	38	140	25	166	32	41	12	73	12
Hard maple	135	31	154	29	38	15	34	10	67	10
Soft maple	559	159	1,150	412	958	338	337	122	682	236
Ash	257	51	287	67	504	118	78	20	172	42
Sycamore	183	49	381	132	731	263	70	19	161	45
Cottonwood	553	154	868	262	2,938	1,230	160	50	446	137
River birch	93	21	92	19	168	42	33	8	106	37
Basswood	--	--	25	10	--	--	--	--	--	--
Black walnut	127	40	481	173	139	44	76	25	101	37
Black cherry	--	--	--	--	--	--	--	--	--	--
Elm	2,268	524	2,572	557	517	113	680	170	1,395	338
Other hardwoods	46	12	150	58	711	175	20	7	26	7
Total hardwoods	13,843	3,374	11,887	2,943	11,516	3,418	3,723	978	8,027	2,252
All species	13,843	3,374	11,887	2,943	11,516	3,418	3,723	978	8,027	2,252

(Table 35 cont. on next page)

(Table 35 cont.)

Species	Shelby		Sullivan		Vernon		Worth	
	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber	Growing stock	Sawtimber
	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/	Cords	Thousand bd.ft.2/
Softwoods:								
Eastern redcedar	--	--	--	--	--	1	--	--
Total softwoods	--	--	--	--	--	1	--	--
Hardwoods:								
Select white oaks	3,159	794	3,203	789	1,646	375	922	210
Other white oaks	535	132	544	132	1,370	301	187	44
Select red oaks	1,116	284	889	204	816	201	271	61
Red oaks	263	71	150	35	2,865	705	44	11
Other red oaks	651	153	683	158	878	206	234	49
Hickory A	1,283	395	738	175	1,549	401	237	53
Hickory B	128	25	137	38	315	84	47	12
Hard maple	108	31	153	41	--	--	40	10
Soft maple	677	202	896	302	1,003	227	145	30
Ash	240	56	285	69	1,140	274	78	19
Sycamore	239	69	203	46	1,214	303	74	16
Cottonwood	442	130	331	75	647	155	101	23
River birch	78	21	78	22	532	113	27	7
Basswood	--	--	--	--	--	--	--	--
Black walnut	114	41	152	54	25	15	25	8
Black cherry	--	--	--	--	--	--	--	--
Elm	1,927	500	2,136	512	1,259	326	664	150
Other hardwoods	57	26	73	26	1,585	356	7	4
Total hardwoods	11,017	2,930	10,651	2,678	16,844	4,042	3,103	707
All species	11,017	2,930	10,651	2,678	16,844	4,043	3,103	707

1/ International 1/4-inch rule.

Table 36.--*Annual mortality of growing stock and sawtimber on commercial forest land, by cause and softwoods and hardwoods, Prairie, Missouri, 1971*

CAUSE	GROWING STOCK			SAWTIMBER		
	ALL SPECIES	SOFTWOODS	HARDWOODS	ALL SPECIES	SOFTWOODS	HARDWOODS
	THOUSAND CUBIC FEET			THOUSAND BOARD FEET[1/]		
DISEASE	2,367	--	2,367	7,217	--	7,217
FIRE	234	--	234	--	--	--
WEATHER	540	--	540	2,296	--	2,296
SUPPRESSION	78	--	78	--	--	--
UNKNOWN	1,469	--	1,469	1,954	--	1,954
LOGGING	58	--	58	--	--	--
ALL CAUSES	4,746	--	4,746	11,467	--	11,467

1/ INTERNATIONAL 1/4-INCH RULE.

Table 37.--*Annual mortality of growing stock and sawtimber on commercial forest land, by species, Prairie, Missouri, 1971*

SPECIES	GROWING STOCK	SAWTIMBER
	THOUSAND CUBIC FEET	THOUSAND BOARD FEET[1/]
HARDWOODS:		
SELECT WHITE OAKS	928	944
OTHER WHITE OAKS	150	--
SELECT RED OAKS	303	929
RED OAKS	665	903
OTHER RED OAKS	413	1,841
HICKORY A	157	385
HICKORY B	59	--
HARD MAPLE	58	--
SOFT MAPLE	78	--
ASH	114	503
COTTONWOOD	88	471
ELM	1,676	5,491
OTHER HARDWOODS	57	--
TOTAL HARDWOODS	4,746	11,467

1/ INTERNATIONAL 1/4-INCH RULE.

Table 38.--*Output of [illegible]ducts by source of material and softwoods and har[illegible], Prairie, Missouri, 1969*

PRODUCT AND SPECIES GROUP	STANDARD UNIT[1/]	TOTAL		ROUNDWOOD PRODUCTS				PLANT BYPRODUCTS	
				GROWING STOCK		NONGROWING STOCK			
		NO. OF UNITS	M CU. FT.	NO. OF UNITS	M CU. FT.	NO. OF UNITS	M CU. FT.	NO. OF UNITS	M CU. FT.
SAW LOGS:	M BD. FT.								
SOFTWOODS		11	2	11	2	--	--	--	--
HARDWOODS		41,315	7,123	30,362	5,244	10,953	1,879	--	--
TOTAL		41,326	7,125	30,373	5,246	10,953	1,879	--	--
VENEER LOGS:	M BD. FT.								
SOFTWOODS		--	--	--	--	--	--	--	--
HARDWOODS		2,770	605	1,644	358	1,126	247	--	--
TOTAL		2,770	605	1,644	358	1,126	247	--	--
COOPERAGE LOGS:	M BD. FT.								
SOFTWOODS		--	--	--	--	--	--	--	--
HARDWOODS		9,205	1,509	8,376	1,373	829	136	--	--
TOTAL		9,205	1,509	8,376	1,373	829	136	--	--
PULPWOOD:	STD. CORDS								
SOFTWOODS		--	--	--	--	--	--	--	--
HARDWOODS		30,416	2,377	12,901	1,002	6,464	502	11,051	873
TOTAL		30,416	2,377	12,901	1,002	6,464	502	11,051	873
POSTS:	M PIECES								
SOFTWOODS		--	--	--	--	--	--	--	--
HARDWOODS		341	145	284	121	57	24	--	--
TOTAL		341	145	284	121	57	24	--	--
CHARCOAL WOOD:	STD. CORDS								
SOFTWOODS		--	--	--	--	--	--	--	--
HARDWOODS		1,764	123	472	33	1,106	77	186	13
TOTAL		1,764	123	472	33	1,106	77	186	13
OTHER:[2/]	M CU. FT.								
SOFTWOODS		--	--	--	--	--	--	--	--
HARDWOODS		979	979	361	361	--	--	618	618
TOTAL		979	979	361	361	--	--	618	618
FUELWOOD:	STD. CORDS								
SOFTWOODS		--	--	--	--	--	--	--	--
HARDWOODS		67,415	4,210	20,278	1,263	43,122	2,686	4,015	261
TOTAL		67,415	4,210	20,278	1,263	43,122	2,686	4,015	261
ALL PRODUCTS:	M CU. FT.								
SOFTWOODS		2	2	2	2	--	--	--	--
HARDWOODS		17,071	17,071	9,755	9,755	5,551	5,551	1,765	1,765

Table 39.--*Forest products harvested by ownership class and product, Prairie, Missouri, 1969*

OWNERSHIP CLASS	SAW LOGS M BD.FT.1/	COOPERAGE LOGS M BD.FT.1/	VENEER LOGS M BD.FT.1/	PULP-WOOD CORDS2/	CHARCOAL WOOD CORDS2/	POSTS M PIECES	FUEL-WOOD CORDS2/	MISCELLANEOUS M CU.FT.
FEDERAL:								
CORPS OF ENGINEERS:								
HARDWOODS	29	--	--	--	--	--	--	--
TOTAL	29	--	--	--	--	--	--	--
PRIVATE:								
INDUSTRIAL:								
HARDWOODS	2	864	14	--	--	--	--	--
FARM AND OTHER:								
SOFTWOODS	11	--	--	--	--	--	--	--
HARDWOODS	41,284	8,341	2,756	19,365	1,578	341	63,400	361
TOTAL	41,297	9,205	2,770	19,365	1,578	341	63,400	361
ALL OWNERS:								
SOFTWOODS	11	--	--	--	--	--	--	--
HARDWOODS	41,315	9,205	2,770	19,365	1,578	341	63,400	361
TOTAL	41,326	9,205	2,770	19,365	1,578	341	63,400	361

1/ INTERNATIONAL 1/4-INCH RULE.
2/ STANDARD CORDS, ROUGH WOOD BASIS.

Table 40.--*Volume of primary plant residue, by kind of material and type of use, Prairie, Missouri, 1969*

(Thousand cubic feet)

SOURCE INDUSTRY AND KIND OF RESIDUE	VOLUME BY TYPE OF USE								
	FIBER1/	CHARCOAL		FUEL2/		OTHER3/		NOT USED4/	
	HARD-WOODS	SOFT-WOODS	HARD-WOODS	SOFT-WOODS	HARD-WOODS	SOFT-WOODS	HARD-WOODS	SOFT-WOODS	HARD-WOODS
LUMBER:									
COARSE	604	--	13	--	130	--	3	1	945
FINE	164	--	--	--	14	--	361	--	635
TOTAL	768	--	13	--	144	--	364	1	1,580
ALL OTHER:									
COARSE	105	--	--	--	41	--	57	--	256
FINE	--	--	--	--	76	--	197	--	475
TOTAL	105	--	--	--	117	--	254	--	731
ALL INDUSTRIES:									
COARSE	709	--	13	--	171	--	60	1	1,201
FINE	164	--	--	--	90	--	558	--	1,110
TOTAL	873	--	13	--	261	--	618	1	2,311

1/ FOR MANUFACTURE OF PULP, HARDBOARD, OR ROOFING FELT.
2/ ALL RESIDUE USED FOR INDUSTRIAL OR DOMESTIC FUEL WHETHER SOLD OR GIVEN AWAY.
3/ INCLUDES USES SUCH AS LIVESTOCK BEDDING, MULCH, SMALL DIMENSION, AND SPECIALTY ITEMS.
4/ INCLUDES RESIDUE BURNED AS WASTE.

Table 41.--*Timber products output from roundwood, by species and product, Prairie, Missouri, 1969*

SPECIES	SAW LOGS		VENEER LOGS		COOPERAGE LOGS		CHARCOAL WOOD		OTHER PRODUCTS[2/]	ALL PRODUCTS
	M BD. FT.[1/]	M CU. FT.	M BD. FT.[1/]	M CU. FT.	M BD. FT.[1/]	M CU. FT.	CORDS[2/]	M CU. FT.	M CU. FT.	M CU. FT.
SOFTWOODS:										
EASTERN REDCEDAR	11	2	--	--	--	--	--	--	--	2
TOTAL SOFTWOODS	11	2	--	--	--	--	--	--	--	2
HARDWOODS:										
WHITE OAKS	2,933	513	--	--	9,205	1,509	610	44	2,882	4,948
RED OAKS	3,703	648	24	5	--	--	330	23	258	934
BLACK OAKS	2,317	405	--	--	--	--	520	37	442	884
HICKORY	608	97	670	150	--	--	118	6	212	465
HARD MAPLE	251	38	--	--	--	--	--	--	--	38
SOFT MAPLE	10,206	1,620	--	--	--	--	--	--	451	2,071
ASH	855	134	--	--	--	--	--	--	79	213
COTTONWOOD	5,542	852	23	5	--	--	--	--	1,021	1,878
BASSWOOD	208	27	8	2	--	--	--	--	--	29
BLACK WALNUT	7,881	1,729	2,042	443	--	--	--	--	--	2,172
BLACK CHERRY	3	--	--	--	--	--	--	--	--	--
ELM	1,883	295	3	--	--	--	--	--	284	579
BIRCH	234	32	--	--	--	--	--	--	16	48
SYCAMORE	3,651	572	--	--	--	--	--	--	112	684
OTHER HARDWOODS	1,040	161	--	--	--	--	--	--	202	363
TOTAL HARDWOODS	41,315	7,123	2,770	605	9,205	1,509	1,578	110	5,959	15,306
ALL SPECIES	41,326	7,125	2,770	605	9,205	1,509	1,578	110	5,959	15,308

1/ INTERNATIONAL 1/4-INCH RULE.
2/ STANDARD CORDS, ROUGH WOOD BASIS.
3/ INCLUDES POSTS, FUELWOOD, SHAVING BOLTS, HEADING BOLTS, ETC.

Table 42.--*Average annual managed harvest for 1972-1981 from harvest cuttings and thinnings, on commercial forest land, by species and kind of material, Prairie, Missouri*

SPECIES	GROWING STOCK[1]			SAWTIMBER[1]	ROUGH AND ROTTEN TREES		
	TOTAL	POLETIMBER TREES	SAWTIMBER TREES	TOTAL	TOTAL	SHORT-LOG TREES	OTHER
	CORDS			THOUSAND BOARD FEET[2]	CORDS		
SOFTWOODS:							
EASTERN REDCEDAR	--	--	--	--	253	--	253
TOTAL SOFTWOODS	--	--	--	--	253	--	253
HARDWOODS:							
SELECT WHITE OAKS	85,911	18,430	67,481	647	55,456	18,443	37,013
OTHER WHITE OAKS	17,721	6,772	10,949	17	7,557	2,912	4,645
SELECT RED OAKS	16,165	1,886	14,279	252	8,139	1,595	6,544
RED OAKS	23,975	6,633	17,342	268	13,570	3,912	9,658
OTHER RED OAKS	12,746	6,012	6,734	1,235	13,126	3,924	9,202
HICKORY A	21,392	7,063	14,329	556	9,177	1,936	7,241
HICKORY B	4,075	3,569	506	--	3,684	355	3,329
HARD MAPLE	583	127	456	--	3,025	--	3,025
SOFT MAPLE	15,976	4,621	11,355	2,120	26,303	4,658	21,645
ASH	6,606	2,898	3,708	278	10,101	354	9,747
SYCAMORE	10,810	1,000	9,810	545	6,936	1,620	5,316
COTTONWOOD	11,659	608	11,051	2,775	6,102	848	5,254
RIVER BIRCH	5,886	2,595	3,291	233	5,633	1,304	4,329
BASSWOOD	2,291	873	1,418	216	4,380	291	4,089
BLACK WALNUT	9,051	1,924	7,127	208	10,607	2,468	8,139
BLACK CHERRY	--	--	--	--	1,962	266	1,696
ELM	10,582	3,481	7,101	133	28,848	2,722	26,126
OTHER HARDWOODS	11,468	4,544	6,924	77	21,392	2,519	18,873
NONCOMMERCIAL SPECIES	--	--	--	--	393	--	393
TOTAL HARDWOODS	266,897	73,036	193,861	9,560	236,391	50,127	186,264
ALL SPECIES	266,897	73,036	193,861	9,560	236,644	50,127	186,517

1/ CUTTINGS OF LESS THAN 3 CORDS PER ACRE, OR THE EQUIVALENT IN BOARD FEET, ARE EXCLUDED.
2/ INTERNATIONAL 1/4-INCH RULE.

Table 43.--*Average annual managed harvest*[1] *of growing stock for 1972-1981 from harvest cuttings and thinnings, on commercial forest land, by species and forest type, Prairie, Missouri*

(Thousand cubic feet)

SPECIES	ALL FOREST TYPES	POST-BLACKJACK OAK	BLACK-SCARLET OAK	WHITE OAK	OAK-GUM-CYPRESS	ELM-ASH-COTTONWOOD	MAPLE-BEECH
HARDWOODS:							
SELECT WHITE OAKS	6,787	48	1,311	4,521	693	68	146
OTHER WHITE OAKS	1,400	990	348	62	--	--	--
SELECT RED OAKS	1,277	--	671	342	66	120	78
RED OAKS	1,894	24	1,622	230	--	13	5
OTHER RED OAKS	1,007	--	105	--	696	202	4
HICKORY A	1,690	52	599	394	238	383	24
HICKORY B	322	44	76	115	59	28	--
HARD MAPLE	46	--	--	--	--	--	46
SOFT MAPLE	1,262	--	--	--	47	1,215	--
ASH	522	--	30	2	9	477	4
SYCAMORE	854	--	173	--	42	639	--
COTTONWOOD	921	--	--	66	--	855	--
RIVER BIRCH	465	--	--	--	172	293	--
BASSWOOD	181	--	56	23	--	99	3
BLACK WALNUT	715	14	287	60	83	268	3
ELM	836	20	103	82	32	596	3
OTHER HARDWOODS	906	42	137	41	194	481	11
TOTAL HARDWOODS	21,085	1,234	5,518	5,938	2,331	5,737	327

1/ CUTTINGS OF LESS THAN 240 CUBIC FEET PER ACRE ARE EXCLUDED.

Table 44.--*Average annual managed harvest of growing stock for 1972-1981 from harvest cuttings and thinnings, on commercial forest land, by species and stand-volume class, Prairie, Missouri*[1]

(Thousand cubic feet)

SPECIES	ALL CLASSES	STAND-VOLUME CLASS (CUBIC FEET PER ACRE)				
		240-399	400-799	800-1,199	1,200-1,599	1,600+
HARDWOODS:						
SELECT WHITE OAKS	6,787	113	1,169	2,077	1,528	1,900
OTHER WHITE OAKS	1,400	7	496	682	215	--
SELECT RED OAKS	1,277	73	154	493	266	291
RED OAKS	1,894	78	627	414	687	88
OTHER RED OAKS	1,007	19	170	539	149	130
HICKORY A	1,690	88	666	543	244	149
HICKORY B	322	13	60	185	64	--
HARD MAPLE	46	11	35	--	--	--
SOFT MAPLE	1,262	9	109	379	504	261
ASH	522	4	109	154	192	63
SYCAMORE	854	4	157	359	121	213
COTTONWOOD	921	--	215	254	--	452
RIVER BIRCH	465	--	48	182	235	--
BASSWOOD	181	--	26	155	--	--
BLACK WALNUT	715	15	150	295	255	--
ELM	836	1	53	321	387	74
OTHER HARDWOODS	906	13	132	463	9	289
TOTAL HARDWOODS	21,085	448	4,376	7,495	4,856	3,910

1/ CUTTINGS OF LESS THAN 240 CUBIC FEET PER ACRE ARE EXCLUDED.

Table 45.--*Average annual managed harvest for 1972-1981, by harvest cuttings of growing stock on commercial forest land, by species and stand-volume class, Prairie, Missouri*

(Thousand cubic feet)

SPECIES	ALL CLASSES	STAND-VOLUME CLASS[1/] (CUBIC FEET PER ACRE)				
		240-399	400-799	800-1,199	1,200-1,599	1,600+
HARDWOODS:						
SELECT WHITE OAKS	6,340	89	938	1,885	1,528	1,900
OTHER WHITE OAKS	1,331	--	496	620	215	--
SELECT RED OAKS	1,180	66	123	434	266	291
RED OAKS	1,582	11	410	386	687	88
OTHER RED OAKS	336	12	72	29	93	130
HICKORY A	1,408	84	435	496	244	149
HICKORY B	230	--	46	120	64	--
HARD MAPLE	36	11	25	--	--	--
SOFT MAPLE	500	9	73	119	299	--
ASH	319	2	26	113	178	--
SYCAMORE	695	--	71	299	121	204
COTTONWOOD	334	--	75	215	--	44
RIVER BIRCH	214	--	29	--	185	--
BASSWOOD	79	--	23	56	--	--
BLACK WALNUT	608	--	101	252	255	--
ELM	630	1	6	185	374	64
OTHER HARDWOODS	840	13	96	433	9	289
TOTAL HARDWOODS	16,662	298	3,045	5,642	4,518	3,159

1/ CUTTINGS OF LESS THAN 240 CUBIC FEET PER ACRE ARE EXCLUDED.

Table 46.--*Average annual managed harvest for 1972-1981, by thinnings of growing stock on commercial forest land, by species and stand-volume class, Prairie, Missouri*

(Thousand cubic feet)

SPECIES	ALL CLASSES	STAND-VOLUME CLASS 1/ (CUBIC FEET PER ACRE)				
		240-399	400-799	800-1,199	1,200-1,599	1,600+
HARDWOODS:						
SELECT WHITE OAKS	447	24	231	192	--	--
OTHER WHITE OAKS	69	7	--	62	--	--
SELECT RED OAKS	97	7	31	59	--	--
RED OAKS	312	67	217	28	--	--
OTHER RED OAKS	671	7	98	510	56	--
HICKORY A	282	4	231	47	--	--
HICKORY B	92	13	14	65	--	--
HARD MAPLE	10	--	10	--	--	--
SOFT MAPLE	762	--	36	260	205	261
ASH	203	2	83	41	14	63
SYCAMORE	159	4	86	60	--	9
COTTONWOOD	587	--	140	39	--	408
RIVER BIRCH	251	--	19	182	50	--
BASSWOOD	102	--	3	99	--	--
BLACK WALNUT	107	15	49	43	--	--
ELM	206	--	47	136	13	10
OTHER HARDWOODS	66	--	36	30	--	--
TOTAL HARDWOODS	4,423	150	1,331	1,853	338	751

1/ CUTTINGS OF LESS THAN 240 CUBIC FEET PER ACRE ARE EXCLUDED.

Table 47.--*Average annual managed harvest of sawtimber[1] for 1972-1981 from harvest cuttings and thinnings, on commercial forest land, by species and forest type, Prairie, Missouri*

(Thousand board feet)[2]

SPECIES	ALL FOREST TYPES	POST-BLACKJACK OAK	BLACK-SCARLET OAK	WHITE OAK	OAK-GUM-CYPRESS	ELM-ASH-COTTONWOOD	MAPLE-BEECH
HARDWOODS:							
SELECT WHITE OAKS	24,015	200	4,254	15,923	2,826	201	611
OTHER WHITE OAKS	4,079	2,723	1,356	--	--	--	--
SELECT RED OAKS	5,691	--	3,117	1,355	371	589	259
RED OAKS	6,834	--	5,870	890	--	50	24
OTHER RED OAKS	2,335	--	306	--	1,127	884	18
HICKORY A	5,419	--	2,236	1,123	307	1,753	--
HICKORY B	195	42	--	153	--	--	--
HARD MAPLE	142	--	--	--	--	--	142
SOFT MAPLE	3,853	--	--	--	160	3,693	--
ASH	1,683	--	--	9	15	1,637	22
SYCAMORE	4,368	--	1,035	--	254	3,079	--
COTTONWOOD	4,519	--	--	327	--	4,192	--
RIVER BIRCH	923	--	--	--	190	733	--
BASSWOOD	453	--	137	100	--	216	--
BLACK WALNUT	2,710	65	931	291	380	1,043	--
ELM	2,612	--	403	209	--	2,000	--
OTHER HARDWOODS	2,617	188	329	85	782	1,180	53
TOTAL HARDWOODS	72,448	3,218	19,974	20,465	6,412	21,250	1,129

1/ CUTTINGS OF LESS THAN 3 CORDS PER ACRE OR THE EQUIVALENT IN BOARD FEET ARE INCLUDED.

2/ INTERNATIONAL 1/4-INCH RULE.

Table 48.--*Average annual managed harvest of sawtimber*[1] *for 1972-1981 from harvest cuttings and thinnings, on commercial forest land, by species and stand-volume class, Prairie, Missouri*

(Thousand board feet)[2]

SPECIES	ALL CLASSES	STAND-VOLUME CLASS (BOARD FEET PER ACRE)			
		0-1,499	1,500-2,499	2,500-4,999	5,000-7,499
HARDWOODS:					
SELECT WHITE OAKS	24,015	1,657	5,788	10,057	6,513
OTHER WHITE OAKS	4,079	722	2,160	1,038	159
SELECT RED OAKS	5,691	865	1,374	2,270	1,182
RED OAKS	6,834	940	269	1,942	3,683
OTHER RED OAKS	2,335	967	200	419	749
HICKORY A	5,419	1,483	1,457	1,592	887
HICKORY B	195	42	--	153	--
HARD MAPLE	142	53	89	--	--
SOFT MAPLE	3,853	810	--	1,657	1,386
ASH	1,683	223	--	857	603
SYCAMORE	4,368	695	299	1,937	1,437
COTTONWOOD	4,519	952	699	980	1,888
RIVER BIRCH	923	191	157	575	--
BASSWOOD	453	353	100	--	--
BLACK WALNUT	2,710	521	838	435	916
ELM	2,612	219	129	1,228	1,036
OTHER HARDWOODS	2,617	136	397	1,898	186
TOTAL HARDWOODS	72,448	10,829	13,956	27,038	20,625

1/ CUTTINGS OF LESS THAN 3 CORDS PER ACRE, OR THE EQUIVALENT IN BOARD FEET ARE INCLUDED.
2/ INTERNATIONAL 1/4-INCH RULE.

Table 49.--*Average annual managed harvest for 1972-1981, by harvest cuttings of sawtimber*[1] *on commercial forest land, by species and stand-volume class, Prairie, Missouri*

(Thousand board feet)[2]

SPECIES	ALL CLASSES	STAND-VOLUME CLASS (BOARD FEET PER ACRE)			
		0-1,499	1,500-2,499	2,500-4,999	5,000-7,499
HARDWOODS:					
SELECT WHITE OAKS	23,368	1,114	5,684	10,057	6,513
OTHER WHITE OAKS	4,062	705	2,160	1,038	159
SELECT RED OAKS	5,439	820	1,167	2,270	1,182
RED OAKS	6,547	653	269	1,942	3,683
OTHER RED OAKS	1,100	199	10	142	749
HICKORY A	4,863	927	1,457	1,592	887
HICKORY B	195	42	--	153	--
HARD MAPLE	142	53	89	--	--
SOFT MAPLE	1,733	278	--	464	991
ASH	1,405	26	--	776	603
SYCAMORE	3,815	142	299	1,937	1,437
COTTONWOOD	1,744	206	699	839	--
RIVER BIRCH	690	115	--	575	--
BASSWOOD	237	137	100	--	--
BLACK WALNUT	2,502	313	838	435	916
ELM	2,479	86	129	1,228	1,036
OTHER HARDWOODS	2,540	59	397	1,898	186
TOTAL HARDWOODS	62,861	5,875	13,298	25,346	18,342

1/ CUTTINGS OF LESS THAN 3 CORDS PER ACRE, OR THE EQUIVALENT IN BOARD FEET ARE INCLUDED.
2/ INTERNATIONAL 1/4-INCH RULE.

Table 50.--*Average annual managed harvest for 1972-1981, by thinnings of sawtimber*[1] *on commercial forest land, by species and stand-volume class, Prairie, Missouri*

(Thousand board feet)[2]

SPECIES	ALL CLASSES	STAND-VOLUME CLASS (BOARD FEET PER ACRE)			
		0-1,499	1,500-2,499	2,500-4,999	5,000-7,499
HARDWOODS:					
SELECT WHITE OAKS	647	543	104	--	--
OTHER WHITE OAKS	17	17	--	--	--
SELECT RED OAKS	252	45	207	--	--
RED OAKS	287	287	--	--	--
OTHER RED OAKS	1,235	768	190	277	--
HICKORY A	556	556	--	--	--
SOFT MAPLE	2,120	532	--	1,193	395
ASH	278	197	--	81	--
SYCAMORE	553	553	--	--	--
COTTONWOOD	2,775	746	--	141	1,888
RIVER BIRCH	233	76	157	--	--
BASSWOOD	216	216	--	--	--
BLACK WALNUT	208	208	--	--	--
ELM	133	133	--	--	--
OTHER HARDWOODS	77	77	--	--	--
TOTAL HARDWOODS	9,587	4,954	658	1,692	2,283

1/ CUTTINGS OF LESS THAN 3 CORDS PER ACRE OR THE EQUILVALENT IN BOARD FEET ARE INCLUDED.
2/ INTERNATIONAL 1/4-INCH RULE.

Table 51.--*Area of managed harvest*[1] *for 1972-1981, by harvest cuttings on commercial forest land, by forest type and stand-age class, Prairie, Missouri*

(Thousand acres)

FOREST TYPE	ALL AGES	STAND-AGE CLASS (YEARS)						
		50-59	60-69	70-79	80-89	90-99	100-119	120-139
POST-BLACKJACK OAK	23.0	--	5.0	6.0	4.0	4.0	--	4.0
BLACK-SCARLET OAK	69.0	--	18.0	10.0	18.0	19.0	4.0	--
WHITE OAK	78.0	--	--	3.0	--	5.0	55.0	15.0
OAK-GUM-CYPRESS	15.0	--	--	4.0	3.0	4.0	--	4.0
ELM-ASH-COTTONWOOD	48.0	16.0	4.0	14.0	4.0	6.0	4.0	--
MAPLE-BEECH	7.0	--	--	--	--	--	3.0	4.0
ALL FOREST TYPES	240.0	16.0	27.0	37.0	29.0	38.0	66.0	27.0

1/ FOR A TEN-YEAR PERIOD.

Table 52.--*Area of managed harvest*[1] *by thinnings on commercial forest land for 1972-1981, by forest type and stand-age class, Prairie, Missouri*

(Thousand acres)

FOREST TYPE	ALL AGES	STAND-AGE CLASS (YEARS)					
		0-9	10-19	20-29	30-39	40-49	50-59
BLACK-SCARLET OAK	75.0	--	4.0	19.0	23.0	24.0	5.0
WHITE OAK	53.0	--	--	17.0	31.0	5.0	--
OAK-GUM-CYPRESS	37.0	--	--	17.0	16.0	4.0	--
ELM-ASH-COTTONWOOD	103.0	3.0	8.0	20.0	44.0	28.0	--
MAPLE-BEECH	21.0	--	--	5.0	9.0	3.0	4.0
ALL FOREST TYPES	289.0	3.0	12.0	78.0	123.0	64.0	9.0

1/ FOR A 10-YEAR PERIOD.

PRINCIPAL TREE SPECIES IN MISSOURI'S PRAIRIE UNIT[4]

IFTWOOD SPECIES

astern redcedar. . . . . .*Juniperus virginiana*

ARD HARDWOOD SPECIES

shes:
White ash . . . . . .*Fraxinus americana*
Green ash . . . . . .*Fraxinus pennsylvanica*

lack walnut. . . . . *Juglans nigra*

ard maples:
Sugar maple . . . . . .*Acer saccharum*

ickory group A:
Pecan . . . . . *Carya illinoensis*
Shellbark hickory . . . . . *Carya laciniosa*
Shagbark hickory. . . . . *Carya ovata*
Mockernut hickory . . . . . *Carya tomentosa*

ickory group B:
Water hickory . . . . . .*Carya aquatica*
Bitternut hickory . . . . . *Carya cordiformis*
Pignut hickory. . . . .*Carya glabra* var. *glabra*

iver birch . . . . . .*Betula nigra*

elect white oaks:
White oak . . . . . .*Quercus alba*
Bur oak . . . . . .*Quercus macrocarpa*
Swamp chestnut oak. . . . . *Quercus michauxii*
Chinkapin oak . . . . . *Quercus muehlenbergii*

White oaks:
Swamp white oak . . . . . *Quercus bicolor*
Overcup oak . . . . . .*Quercus lyrata*

Other white oaks:
Post oak. . . . .*Quercus stellata* var. *stellata*

Select red oaks:
Northern red oak. . . . . *Quercus rubra*
Shumard oak . .*Quercus shumardii* var. *shumardii*

Red oaks:
Scarlet oak . . . . . .*Quercus coccinea*
Black oak . . . . . .*Quercus velutina*

Other red oaks:
Shingle oak . . . . . .*Quercus imbricaria*
Blackjack oak . . . . . *Quercus marilandica*
Pin oak . . . . . *Quercus palustris*

Other hard hardwoods:
Black locust. . . . . .*Robinia pseudoacacia*
Common persimmon. . . . . .*Diospyros virginiana*
Honeylocust . . . . . *Gleditsia triacanthos*
Red mulberry. . . . . *Morus rubra*
Osage-orange. . . . . .*Maclura pomifera*

SOFT HARDWOOD SPECIES

American basswood . . . . . *Tilia americana*
American sycamore . . . . . *Platanus occidentalis*
Black cherry. . . . . *Prunus serotina*
Butternut . . . . . *Juglans cinerea*

Cottonwoods:
Eastern cottonwood. . . . . *Populus deltoides*

Elms:
American elm. . . . . *Ulmus americana*
Slippery elm. . . . . *Ulmus rubra*
Rock elm. . . . . .*Ulmus thomasii*

Soft maples:
Silver maple. . . . . .*Acer saccharinum*

Other soft hardwoods:
Black willow. . . . . *Salix nigra*
Boxelder. . . . . .*Acer negundo*
Hackberry . . . . . *Celtis occidentalis*
Kentucky coffeetree . . . . *Gymnocladus dioicus*
Ohio buckeye. . . . . *Aesculus glabra*
Sassafras . . . . . *Sassafras albidum*

---

[4]*The common and scientific names are based on "Check List of Native and Naturalized Trees of the United States (Including Alaska)," by Elbert L. Little, Jr., U.S. Dep. Agric., Agric. Handb. 41, 472 p., 1953.*

APPENDIX

ACCURACY OF SURVEY

Forest survey information is based on a sampling procedure designed to provide reliable statistics at the State and Survey Unit levels. Consequently, the reported figures are estimates only. However, a measure of reliability of these figures is given by sampling errors. These sampling errors may be interpreted as meaning that the chances are two out of three that the results for the sample differ by no more than the amount indicated, from the results that would have been obtained if all trees in the Unit had been measured (a 100-percent inventory), using the same tree measurements.

For example, the estimated area of commercial forest land in the Prairie Unit in 1972, 1,940.4 thousand acres, has a sampling error of ±2.6 percent (±50.5 thousand acres). The chances are two out of three, then, that the commercial forest area falls between 1,889.9 and 1,990.9 thousand acres (1,940.4 ± 50.5), the limits within which the results of a 100-percent inventory would occur.

Following are sampling errors for total estimated volume, net growth, and removals for both growing stock and sawtimber, and for area of commercial forest land during the 1972 Prairie Survey:

Item	*Prairie Unit totals*	*Sampling error (Percent)*
Growing Stock:		
Volume	11,673.6 M cords	4.6
Growth	375.5 M cords	7.5
Removals	588.6 M cords	11.8
Sawtimber:		
Volume	2,458.0 MM bd. ft.	6.3
Growth	66.3 MM bd. ft.	10.2
Removals	151.0 MM bd. ft.	10.8
Commercial forest land	1,940.4 M acres	2.6

As survey data are broken down into units smaller than State or Survey Unit totals, the sampling error increases. The smaller the breakdown, the larger the sampling error. For example, the sampling error for area of commercial forest land in a particular county is higher than that for total commercial forest area in the Survey Unit. An approximation of the increasing sampling error can be obtained from table 53, which shows the sampling errors associated with estimates smaller than totals in the Prairie Unit.

Table 53.--*Sampling errors*[1] *for estimates smaller than unit totals of volume, net growth, and removals, and of area of commercial forest land, Prairie, Missouri, 1972*

SAMPLING ERROR (PERCENT)	COMMERCIAL FOREST	GROWING STOCK			SAWTIMBER		
		INVENTORY	GROWTH	REMOVALS	INVENTORY	GROWTH	REMOVALS
	THOUSAND ACRES	MILLION CUBIC FEET			MILLION BOARD FEET[2]		
1	--	--	--	--	--	--	--
2	3,324.1	--	--	--	--	--	--
3	1,477.4	--	--	--	--	--	--
4	831.0	1,215.5	--	--	--	--	--
5	531.9	777.9	66.1	--	3,853.9	--	--
10	133.0	194.5	16.5	64.6	963.5	69.5	174.5
15	59.1	86.4	7.4	28.7	428.2	30.9	77.6
20	33.2	48.6	4.1	16.2	240.9	17.4	43.6
25	21.3	31.1	2.6	10.3	154.2	11.1	27.9
50	5.3	7.8	.7	2.6	38.5	2.8	7.0
100	1.3	1.9	.2	.6	9.6	.7	1.7

1/ AT THE 68-PERCENT PROBABILITY LEVEL.
2/ INTERNATIONAL 1/4-INCH RULE.

SURVEY PROCEDURE

The major steps in the survey of the Prairie Unit were as follows:

1. A total of 96,231 1-acre points distributed systematically across aerial photos of the entire area were observed. These points were classified as either forest land (13,551) or nonforest land (82,680) in order to make a preliminary estimate of forest area. Next, 5,134 of the forest points were stereoclassified as to forest type, stand-size class, and density. Then 561 points classed as forest and 3,515 points classed as nonforest were examined on the ground to correct the preliminary area estimate for errors in classification and for actual changes in land use since the photos were taken. Some of the points examined were locations of permanent sample plots (each of which contained one variable-radius plot with basal area factor five) established during the 1959 survey. Of the 398 points determined to be on commercial forest land from ground examination, 184 were at previously unsampled locations and 10-point variable-radius plots (basal area factor 37.5) were established uniformly over the sample acre. The remaining 214 points were at formerly established permanent plot locations and were remeasured by superimposing 10-point variable-radius plots (basal area factor 37.5) over the existing plot in addition to remeasuring the basal area factor five plot. Tree measurements made on new and remeasured plots were the basis for estimates of timber volume, growth, mortality, number of trees, and other forest classifications.

2. Statistics on timber utilization in 1969 were obtained from mill surveys and from remeasurement of permanent sample plots. The Missouri Department of Conservation conducted a canvass of resident sawmills, veneer mills, and other primary wood-using plants. The North Central Forest Experiment Station canvassed resident pulpmills, and the underground mining industry in Missouri, as well as out-of-State sawmills, pulpmills, and veneer mills to determine their use of timber from Missouri. Fuelwood and fencepost output was based on U.S. Census of Agriculture and Housing figures, a canvass of public and industrial timber owners, and a canvass of resident wood-treating plants. Estimates of primary mill residue used for fuelwood were obtained from the canvass of Missouri primary wood-using plants. Timber cut for products by owner class was determined by a canvass of all public and industrial timber owners. The portion of timber cut unaccounted for by the latter owners was grouped under "farmer and other owners."

3. To develop wood utilization factors used in converting timber products output to timber removals for saw logs, veneer logs, cooperage logs, pulpwood, and charcoal wood, 486 felled trees throughout the State were measured. Factors for all other products were obtained during the 1959-1960 Missouri utilization study.

4. Field data were sent to St. Paul where they were edited, punched on cards, and stored on magnetic tape for later machine sorting, computing, and tabulation.

MANAGED HARVEST

Managed harvest is the estimated volume of timber on commercial forest land that could be cut annually for the next 10 years, while improving tree stocking and bringing about a more even distribution of age classes. In Missouri, annual managed harvest is shown separately as that from harvest cutting and from thinnings, and was determined by computer using an area control system for determining the number of acres to be cut annually.

The harvest cut of sawtimber was calculated from stands of forest types normally managed for sawtimber whose site index and age indicated they were ready for harvest, or would be within the next 10 years. Table 54 shows the site index used in these calculations for each forest type to determine whether the objective of management would be to grow sawtimber or pulpwood. Included also is the rotation age for each.

Stands that did not qualify for harvest during that period were checked to see if they were overstocked by basal-area standards, or would be within the next 10 years. Stands determined to be overstocked were "thinned" by the computer back to their recommended basal-area stocking level, and the volume of sawtimber trees "thinned" was added to the volume of managed harvest by thinnings of growing stock and sawtimber. The volume of poletimber trees "thinned"

Table 54.--*Forest type, site index, and rotation age, by management objective, used in calculation of annual allowable cut, Missouri, 1972*

Forest type	Site index	Rotation age	Management objective
		Years	
Shortleaf pine	50 or higher	60	Sawtimber
	Less than 50	40	Pulpwood
Shortleaf pine-oak	60 or higher	80	Sawtimber
	Less than 60	50	Pulpwood
Eastern redcedar	35 or higher	55	Sawtimber
	Less than 35	70	Sawtimber
Eastern redcedar-hardwood	45 or higher	50	Sawtimber
	Less than 45	60	Sawtimber
Black-scarlet oak	60 or higher	80	Sawtimber
	Less than 60	50	Pulpwood
White oak	60 or higher	80	Sawtimber
	Less than 60	50	Pulpwood
Post-blackjack oak	All sites	50	Pulpwood
Oak-gum-cypress	All sites	60	Sawtimber
Cottonwood	All sites	30	Sawtimber
Elm-ash-cottonwood	All sites	50	Sawtimber
Maple-beech	All sites	90	Sawtimber

was added to the growing-stock managed harvest by thinnings. In scheduling thinnings, the computer program first "removes" rough and rotten trees, then short-log trees, and finally, growing-stock trees. The volume of managed harvest from rough, rotten, and short-log (rough) trees is kept separate from that from growing-stock trees.

The harvest cut of growing stock included that of sawtimber in addition to the volume from stands of forest types normally managed for pulpwood that were or would be rotation age within the next 10 years.

Managed harvest is based on the assumptions that all timber will be available and accessible when needed, and that a ready market will exist for every species, size, and grade of material harvested. Further, it assumes that the proper sequence of cutting is known and will be followed, and that logging practices employed will result in an improved forest. Because there is no way of guaranteeing that these assumptions will be carried out during the next 10 years, the managed harvest estimates should be compared with timber removals figures only in a general way.

LOG GRADE

The butt log of every sawtimber tree (965 trees) on every permanent sample plot in the Prairie Unit, and all of the logs in a smaller sample of trees throughout the State (265 trees) were log-graded. The volume yield by log grade for each tree in the smaller sample was used to distribute the volume of trees in the permanent plot sample into log-grade classes. The resulting volumes were expanded to provide an estimate for the entire unit.

Logs are graded on the basis of external characteristics as indicators of quality. Hardwood species were graded according to "Hardwood Log Grades for Standard Lumber and How To Use Them," published by the Forest Products Laboratory under the designation D1737A, 1961, and USDA Forest Service standards for hardwood tie and timber logs. The best 12-foot section of the lowest 16-foot hardwood log, or the best 12-foot upper section if the butt log did not meet minimum log grade standards, was graded.

Shortleaf pine was graded according to "Interim Southern Pine Log Grades," USDA Forest Service, 1953. All other softwoods were graded according to "Specifications for Log Grades of Hardwoods and Softwoods," Northern Hemlock and Hardwood Association, 1947. The lowest 16-foot log in softwood trees or a shorter log down to 12 feet if a 16-foot butt log was not present, was graded.

☆ U.S. GOVERNMENT PRINTING OFFICE: 1975-667-63

Hahn, Jerold T., and Alexander Vasilevsky.
1975. Timber resource of Missouri's Prairie, 1972. North Cent. For. Exp. Stn., St. Paul, Minn. 100 p. (USDA For. Serv. Resour. Bull. NC-26)

The third timber inventory of Missouri's Prairie Forest Survey Unit shows substantial declines in both growing-stock and sawtimber volumes between 1959 and 1972. Commercial forest area declined by one-fifth. Presents highlights and statistics on forest area and timber volume, growth, mortality, ownership, and use in 1972.

OXFORD: 524.1:905.2(778). KEY WORDS: timber volume, growth, utilization, forest area.

Hahn, Jerold T., and Alexander Vasilevsky.
1975. Timber resource of Missouri's Prairie, 1972. North Cent. For. Exp. Stn., St. Paul, Minn. 100 p. (USDA For. Serv. Resour. Bull. NC-26)

The third timber inventory of Missouri's Prairie Forest Survey Unit shows substantial declines in both growing-stock and sawtimber volumes between 1959 and 1972. Commercial forest area declined by one-fifth. Presents highlights and statistics on forest area and timber volume, growth, mortality, ownership, and use in 1972.

OXFORD: 524.1:905.2(778). KEY WORDS: timber volume, growth, utilization, forest area.

Some Recent Forest Survey Reports Published by
the North Central Forest Experiment Station

Primary forest products industry and industrial roundwood production, Michigan, 1969, by James E. Blyth and Allen H. Boelter. USDA For. Serv. Resour. Bull. NC-12, 12 p., illus. 1971.

Kansas saw-log production jumps 38 percent from 1964 to 1969, by James E. Blyth and Leonard K. Gould. USDA For. Serv. Res. Note NC-128, 2 p., illus. 1971.

Wisconsin's 1968 timber resource--a perspective, by John S. Spencer, Jr. and Harry W. Thorne. USDA For. Serv. Resour. Bull. NC-15, 80 p., illus. 1972.

Missouri's primary forest products output and industries, 1969, by James E. Blyth and Robert Massengale. USDA For. Serv. Resour. Bull. NC-16, 15 p., illus. 1972.

Forest area in Wisconsin counties, 1968, by Burton L. Essex. USDA For. Serv. Res. Note NC-135, 4 p., illus. 1972.

Iowa saw-log production and sawmill industry, 1969, by James E. Blyth and William A. Farris. USDA For. Serv. Res. Note NC-136, 4 p., illus. 1972.

Timber volume in Wisconsin counties, by Arnold J. Ostrom. USDA For. Serv. Res. Note NC-145, 4 p., illus. 1972.

Pulpwood production in the North Central Region by county, 1971, by James E. Blyth. USDA For. Serv. Resour. Bull. NC-17, 21 p., illus. 1973.

Pulpwood production in the North Central Region by county, 1972, by James E. Blyth. USDA For. Serv. Resour. Bull. NC-18, 16 p., illus. 1973.

Lake States pulpwood production dips to 4 million cords in 1971, by James E. Blyth. USDA For. Serv. Res. Note NC-148, 3 p. 1973.

Local net timber volume equations for Wisconsin, by Jerold T. Hahn. USDA For. Serv. Res. Note NC-149, 4 p., illus. 1973.

Pulpwood production in the Lake States by county, 1972, by James E. Blyth. USDA For. Serv. Res. Note NC-152, 4 p. 1973.